



MEMPHIS STATE UNIVERSITY BULLETIN

CATALOG ISSUE 1962-63

DIRECTORY FOR CORRESPONDENCE

Inquiries will receive prompt attention if addressed to the administrative officers indicated below, at Memphis State University, Memphis 11, Tennessee.

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ALUMNI AFFAIRS	<i>The Alumni Secretary</i>
DEGREE REQUIREMENTS	<i>Director of the school in which the degree is offered</i>
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EVALUATION OF CREDITS	<i>Dean of Admissions</i>
EVENING COURSES	<i>Director, The Evening Division</i>
EXTENSION COURSES	<i>Director, The Extension Division</i>
FINANCIAL AND BUSINESS AFFAIRS	<i>The Business Manager</i>
GRADUATE STUDIES	<i>Director, The Graduate School</i>
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HOUSING (MEN)	<i>Dean of Men</i>
HOUSING (WOMEN)	<i>Dean of Women</i>
PRE-PROFESSIONAL CURRICULA	<i>Director of the school in which the curriculum is offered</i>
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REGISTRATION	<i>Dean of Students, or Dean of Admissions</i>
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TRANSCRIPTS OF CREDITS	<i>Dean of Admissions</i>
VETERANS' AFFAIRS	<i>Coordinator of Veterans' Affairs</i>

BULLETIN OF MEMPHIS STATE UNIVERSITY

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1962—1963

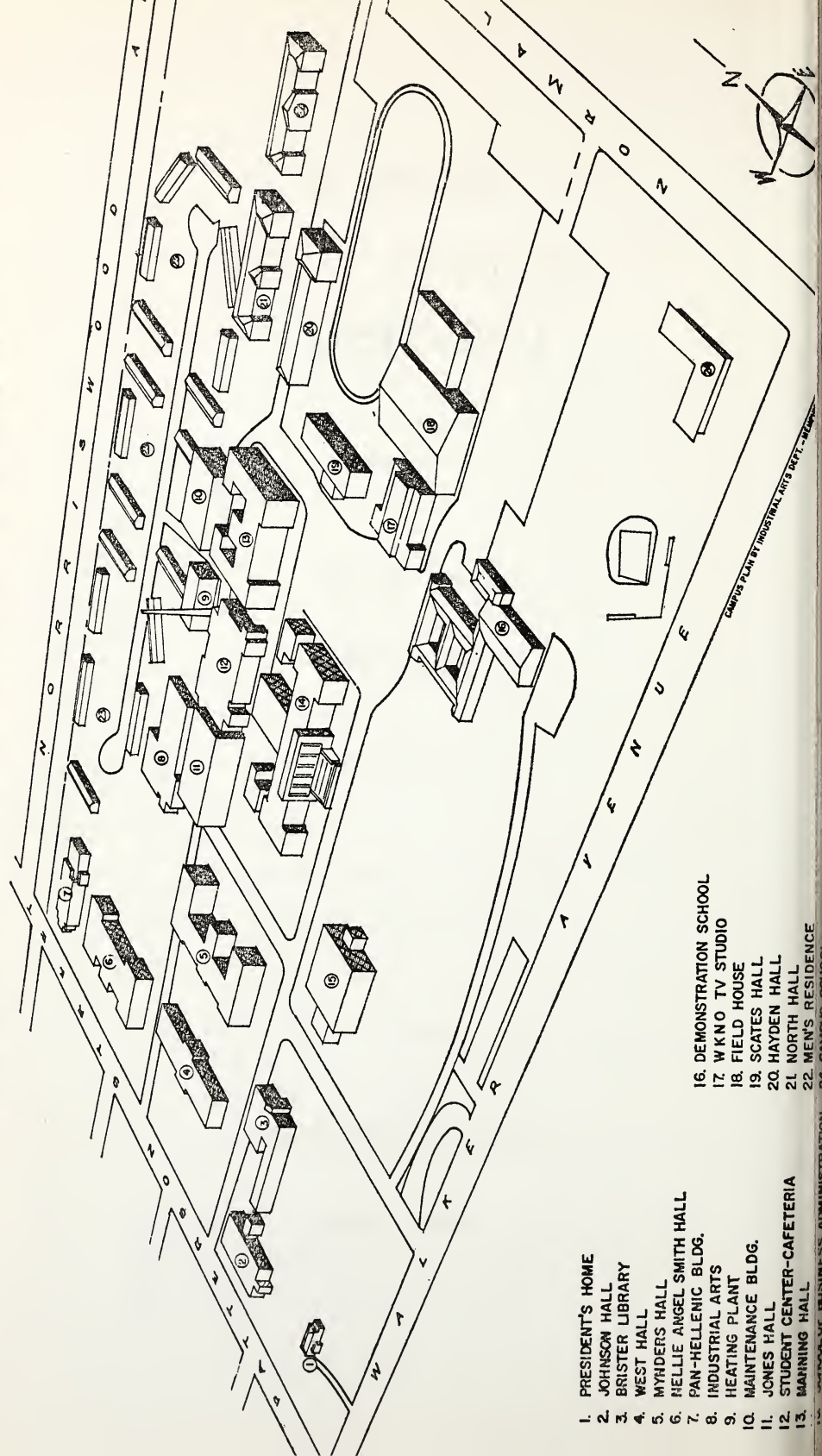
The Fifty-first Session will open

Friday, September 14, 1962

MEMPHIS, TENNESSEE

MAY, 1962

Memphis State University Campus



1. PRESIDENT'S HOME
2. JOHNSON HALL
3. BRISTER LIBRARY
4. WEST HALL
5. MYRDERS HALL
6. HELLIE ANGEL SMITH HALL
7. PAN-HELLENIC BLDG.
8. INDUSTRIAL ARTS
9. HEATING PLANT
10. MAINTENANCE BLDG.
11. JONES HALL
12. STUDENT CENTER-CAFETERIA
13. MAINING HALL

16. DEMONSTRATION SCHOOL
17. W KNO TV STUDIO
18. FIELD HOUSE
19. SCATES HALL
20. HAYDEN HALL
21. NORTH HALL
22. MEN'S RESIDENCE
23. CAMPUS SCHOOL
24. CAMPUS SCHOOL

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1962													
SEPTEMBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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31													
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28	29	30					25	26	27	28	29	30	31

THE UNIVERSITY CALENDAR

1962—1963

FIRST SEMESTER

SEPTEMBER 14, FRIDAY:	Meeting of the University faculty, 9:00 A.M., Auditorium.
SEPTEMBER 15, SATURDAY:	Meetings of the University faculty by schools and departments, 9:00 A.M.
SEPTEMBER 16, SUNDAY:	Dormitories will open at noon.
SEPTEMBER 16, SUNDAY:	Reception for new members of the University faculty, 4:00 P.M.
SEPTEMBER 17, MONDAY— SEPTEMBER 18, TUESDAY:	Orientation program for beginning freshmen.
SEPTEMBER 19, WEDNESDAY:	Registration of beginning freshmen.
SEPTEMBER 20, THURSDAY— SEPTEMBER 21, FRIDAY:	Registration of returning freshmen, sophomores, juniors, and seniors. Orientation of new students registering in The Evening Division, 6:00 P.M.; registration, 6:30 P.M.
SEPTEMBER 22, SATURDAY:	Registration, The Graduate School, 9:00 A.M.
SEPTEMBER 24, MONDAY:	Classes meet as scheduled.
SEPTEMBER 28, FRIDAY:	Last day for adding courses.
OCTOBER 12, FRIDAY:	Holiday. West Tennessee Education Association.
OCTOBER 19, FRIDAY:	Last day for making application to appropriate school director for degrees to be conferred in January, 1963.
OCTOBER 26, FRIDAY:	Last day for dropping courses.
NOVEMBER 12, MONDAY:	Holiday. Veterans' Day.
NOVEMBER 19, MONDAY:	Mid-semester deficiency reports due in Records Office.
NOVEMBER 22, THURSDAY— NOVEMBER 25, SUNDAY: (inclusive):	Thanksgiving recess.
DECEMBER 4, TUESDAY:	English proficiency examination.
DECEMBER 15, SATURDAY— JANUARY 1, TUESDAY (inclusive):	Christmas recess.
JANUARY 28, MONDAY:	Final examinations begin.
FEBRUARY 2, SATURDAY:	Commencement, 10:00 A.M., Auditorium

SECOND SEMESTER

FEBRUARY 8, FRIDAY:	Registration, The Evening Division, 6:00 P.M.
FEBRUARY 9, SATURDAY:	Registration, The Graduate School, 9:00 A.M.
FEBRUARY 10, SUNDAY:	Dormitories will open at noon.
FEBRUARY 11, MONDAY:	Registration for current students and for former students who complete admission requirements by January 12.
FEBRUARY 12, TUESDAY:	Orientation for beginning freshmen and transfer students, 8:00 A.M., Auditorium.
FEBRUARY 12, TUESDAY:	Registration continued for current and former students, 9:00 A.M. to 12:00 noon.
FEBRUARY 12, TUESDAY:	Registration for beginning freshmen and transfer students, 1:00 P.M.
FEBRUARY 13, WEDNESDAY:	Classes meet as scheduled.
FEBRUARY 19, TUESDAY:	Last day for adding courses.
MARCH 15, FRIDAY:	Last day for making application to appropriate school director for degrees to be conferred in June, 1963.
MARCH 19, TUESDAY:	Last day for dropping courses.
APRIL 1, MONDAY:	Mid-term deficiency reports due in Records Office.
APRIL 2, TUESDAY:	English proficiency examination.
APRIL 11, THURSDAY— APRIL 14, SUNDAY (inclusive):	Easter recess.
MAY 27, MONDAY:	Final examinations begin.
JUNE 1, SATURDAY:	Commencement, 10:00 A.M., Field House.


THE SUMMER SESSION, 1963

FIRST TERM

JUNE 9, SUNDAY:	Dormitories will open at noon.
JUNE 10, MONDAY:	Orientation and registration of beginning freshmen, 8:00 A.M.-12:00 noon.
JUNE 10, MONDAY:	Registration, The Graduate School, 1:00 P.M.
JUNE 11, TUESDAY:	Registration of returning freshmen, sophomores, juniors, and seniors, 8:00 A.M.-12:00 noon.
JUNE 11, TUESDAY:	Registration of transfer students, 1:00 P.M.
JUNE 12, WEDNESDAY:	Classes meet as scheduled.
JUNE 14, FRIDAY:	Last day for adding first term courses.
JUNE 21, FRIDAY:	Last day for dropping first term courses.
JUNE 25, TUESDAY:	English proficiency examination.
JUNE 28, FRIDAY:	Last day for dropping two-term courses.
JULY 4, THURSDAY:	Holiday, Independence Day.
JULY 18, THURSDAY:	Final examinations.

SECOND TERM

JULY 22, MONDAY:	Registration of all undergraduates, 8:00 A.M.
JULY 22, MONDAY:	Registration, The Graduate School, 1:00 P.M.
JULY 23, TUESDAY:	Classes meet as scheduled.
JULY 25, THURSDAY:	Last day for adding second term courses.
JULY 26, FRIDAY:	Last day for making application to appropriate school director for degrees to be conferred in August, 1963.
AUGUST 1, THURSDAY:	Last day for dropping second term courses.
AUGUST 6, TUESDAY:	English proficiency examination.
AUGUST 23, FRIDAY:	Final examinations.
AUGUST 24, SATURDAY:	Commencement, 10:00 A.M., Auditorium.



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Part One:

OFFICERS, FACULTY, AND
STAFF OF THE UNIVERSITY

THE BOARD OF EDUCATION
of
THE STATE OF TENNESSEE

HON. BUFORD C. ELLINGTON, Governor of the State of Tennessee,
ex officio

HON. JOE MORGAN, Commissioner of Education, The State of Tennessee, *Chairman*

HON. ERNEST C. BALL, *Memphis*

HON. THOMAS M. DIVINE, *Kingsport*

HON. EDWARD L. JENNINGS, *Liberty*

HON. W. R. LANDRUM, *Trenton*

MRS. BERNARD A. McDERMOTT, *Nashville*

HON. F. THORNTON STRANG, *Chattanooga*

HON. J. HOWARD WARF, *Hohenwald*

HON. JAMES WILLIAMS, *Henderson*

MRS. SAM WILSON, *Loudon*

THE ADMINISTRATIVE OFFICERS

- CECIL C. HUMPHREYS, B.S., M.A., Ph.D., *President*
 J. MILLARD SMITH, B.S., M.A., *President Emeritus*
 ROBERT MELVILLE ROBISON, B.A., M.A., *Dean of Students and Assistant to the President*
 LAMAR NEWPORT, B.A., M.S., *Business Manager*
 R. P. CLARK, B.S., M.A., *Dean of Admissions*
 FLORA HAYES RAWLS, B.A., M.A., *Dean of Women*
 GEORGE B. PRATT, B.S., M.A., *Dean of Men*
 WALTER RHEA SMITH, B.A., M.A., Ph.D., *Director of The School of Arts and Sciences*
 HERBERT JOHN MARKLE, B.B.A., M.A., Ph.D., *Director of The School of Business Administration*
 SAM HOWARD JOHNSON, B.S., M.A., Ed.D., *Director of The School of Education*
 JOHN W. RICHARDSON, B.S., M.Ed., Ed.D., *Director of The Graduate School*
 CALVIN MOORMAN STREET, B.S., M.S., Ed.D., *Director of The Evening Division*
 HEBER ELIOT RUMBLE, B.S., M.A., Ph.D., *Director of The Summer Session*

THE ADMINISTRATIVE COUNCIL

The President

The Dean of Students

The Dean of Admissions

The Directors of The School of Arts and Sciences, The School of Business Administration, The School of Education, The Graduate School, The Evening Division, and The Summer Session

The Chairman of The Faculty Council

THE FACULTY

- WILLIAM CARTER ABBETT (1949), *Instructor in English*
B.S., 1948, Memphis State University; M.A., 1949, Vanderbilt University.
- MILDRED B. ALGEE (1953), *Instructor in Library Service*
B.S., 1931, Union University; M.A., 1951, George Peabody College.
- CHARLENE JAYROE ALLEN (1960), *Instructor in English*
B.A., 1957, Southwestern at Memphis; M.A., 1958, University of Alabama.
- CHARLES HENRY ALLGOOD (1955), *Associate Professor of Art*
B.F.A., 1950, M.F.A., 1951, University of Georgia.
- RUTH BRITTON ALMY (1958), *Instructor in Geography*
B.S., 1956, M.A., 1957, Memphis State University.
- HOLGER WITMER ANDERSEN (1949), *Associate Professor of Psychology*
B.A., 1926, Nebraska State Teachers College; M.A., 1930, University of Wyoming; Ph.D., 1937, George Peabody College.
- GEORGE L. ANDERSON (1958), Lieutenant Colonel, United States Air Force; *Professor of Air Science*
B.A., 1937, Erskine College; M.A., 1961, Memphis State University.
- SAM ARMSTEAD ANDERSON (1946), *Associate Professor of Mathematics*
B.A., 1929, Southwestern at Memphis; M.A., 1932, George Peabody College.
- ROBERT L. ARENDS (1960), *Assistant Professor of English*
B.A., 1941, Iowa State Teachers College; B.D., 1944, Northwestern; Ph.D., 1948, Yale University.
- PETER BANNON (1947), *Professor of English*
B.A. 1936, M.A., 1937, Ph.D., 1943, State University of Iowa.
- *MELVIN C. BARBER (1959), *Instructor in Geography*
B. S., 1958, Memphis State University; M.A., 1959, George Peabody College.
- WILLIAM B. BARTON, JR. (1958), *Professor of Philosophy*
B.A., 1944, Abilene Christian College; S.T.B., 1947, S.T.M., 1948, Ph.D., 1955, Harvard University.
- MARY VROMAN BATTLE (1956), *Instructor in English*
B.A., 1948, College of St. Teresa; M.A., 1954, The Catholic University of America.
- JAMES GORDON BEASLEY (1959), *Associate Professor of Chemistry*
B.S., 1951, M.S., 1955, Alabama Polytechnic Institute.
- JANELLE BEAUBOEUF (1960), *Instructor in Speech and Drama*
B.A., 1958, Louisiana College; M.A., 1959, University of Alabama.

* On leave of absence, 1961-62

- EUGENE BENCE (1949), *Associate Professor of Speech and Drama*
B.S., 1933, Memphis State University; M.A., 1949, Northwestern University.
- WILLIAM FRANK BETHANY (1957), *Assistant Professor of Mathematics*
B.S., 1957, Memphis State University; M.S., 1958, University of Mississippi.
- HUGH MYERS BIRMINGHAM, JR. (1959), *Instructor in English*
B.Mus., 1951, M.A., 1955, North Texas State College.
- AARON M. BOOM (1949), *Professor of History*
B.A., 1940, M.A., 1941, University of Nebraska; Ph.D., 1948, University of Chicago.
- DONALD A. BOYD (1957), *Assistant Professor of Management*
B.S., 1956, Delta State College; M.B.A., 1957, Indiana University.
- WILLIAM B. BREWER (1961), *Instructor in Spanish*
B.A., 1958, Memphis State University; M.A., 1959, Tulane University.
- WILLIAM A. BROTHERTON (1948), *Assistant Professor of Industrial Arts*
B.S., 1948, Memphis State University; M.A., 1951, George Peabody College.
- CARL DEE BROWN (1952), *Professor of Biology*
B.S., 1947, Oklahoma Baptist University; M.S., 1947, Louisiana State University; Ph.D., 1951, Iowa State University.
- CHARLES SPURGEON BROWN (1940), *Associate Professor of History*
B.A., 1931, Union University; M.A., 1940, George Peabody College.
- LEON WOODROW BROWNEE (1952), *Associate Professor of Education*
B.S., 1939, Sul Ross State College; M.Ed., 1947, Ph.D., 1952, University of Texas.
- ERWIN CLYDE BUELL (1960), *Professor of Political Science*
B.S., 1941, North Texas State University; M.S., 1947, Ph.D., 1955, University of North Carolina.
- ELSE ANNE BUNCH (1960), *Instructor in Physical Education*
B.S., 1954, Longwood College; M.S., 1956, University of Tennessee.
- JAMES GORDON BURROW (1957), *Assistant Professor of History*
B.A., 1943, University of Missouri; M.A., 1947, University of South Carolina; Ph.D., 1956, University of Illinois.
- ORTON C. BUTLER (1960), *Assistant Professor of Geography*
B.A., 1948, Oberlin College; M.A., 1951, Clark University.
- WILLIAM PIERCE CARSON (1947), *Professor of English*
B.A., 1913, Furman University; M.A., 1915, University of Chicago; Ph.D., 1925, Columbia University.
- FRANCES EVALYN CHANEY (1958), *Instructor in English*
B.A., 1940, Arkansas College; M.A., 1944, George Peabody College.

- LOUISE CAMERON CHAPMAN (1949), *Assistant Professor of Marketing*
B.S., 1947, Southeast Missouri State College; M.A., 1949, State University of Iowa.
- HELEN W. CHILDERS (1958), *Assistant Professor of English*
B.A., 1935, Southwest Texas State Teachers College; M.A., 1950, Ph.D., 1958, George Peabody College.
- DON PEARSON CLAYPOOL (1956), *Associate Professor of Chemistry*
B.S., 1946, Tulane University; M.S., 1950, Ph.D., 1952, University of Kentucky.
- GEORGIA ELIZABETH CLIFTON (1961), *Assistant Professor of English*
B.A., 1936, M.A., 1939, East Texas State Teachers College; Ed.D., 1951, University of Texas.
- JOHN L. COBB (1958), *Instructor in Physical Education*
B.S., 1951, M.A., 1953, Memphis State University.
- MYRTLE S. COBB (1940), *Assistant Professor of Education*
B.A., 1929, Chatham College; M.A., 1932, University of Pittsburgh.
- SAMUEL VADAH COCHRAN, JR. (1961), *Instructor in English*
B.A., 1941, Louisiana State University; M.A., 1942, University of Wisconsin.
- EDWIN R. COKER (1961), *Instructor in English*
B.A.E., 1949, M.A., 1949, University of Mississippi.
- R. J. COLTHARP (1945), *Professor of Industrial Arts*
B.A., 1927, Wesmar College; M.S., 1938, Kansas State College.
- BETTY CAROLYN CONGLETON (1961), *Assistant Professor of History*
B.A., 1946, Maryville College; M.A., 1948, University of Kentucky; Ph.D., 1962, University of Kentucky.
- JOHN H. CORBET (1958), *Assistant Professor of Geography*
B.S., 1953, M.A., 1954, Memphis State University.
- HARRY C. COTHAM (1958), *Instructor in English*
B.A., 1941, Abilene Christian College; M.A., 1948, Columbia University.
- ELLERY EARL CRADER (1952), *Professor of Education; Director of The Extension Division*
B.S., 1928, Southeast Missouri State College; M.A., 1946, Ph.D., 1952, George Peabody College.
- EDWARD IRWIN CRAWFORD (1946), *Professor of Accountancy*
B.S., 1916, University of Washington; M.S., 1936, University of Southern California; Ed.D., 1946, New York University.
- LAWRENCE WILSON CURBO (1958), *Assistant Professor of Accountancy*
B.B.A., 1950, M.B.A., 1950, University of Mississippi; C.P.A., 1950, Mississippi.

- LEONARD P. CURRY (1958), *Assistant Professor of History*
B.A., 1951, Western Kentucky State College; M.A., 1956, Ph.D., 1961, University of Kentucky.
- MARY PRICHARD CURRY (1961), *Instructor in History*
B.A., 1955, Agnes Scott College; M.A., 1958, University of Kentucky.
- ARTHUR RENICH DAILEY (1960), *Instructor in Spanish*
B.A., 1938, Carson Newman College; Th.M., 1942, Southern Baptist Theological Seminary; M.A., 1960, University of Mississippi.
- MERLIN C. DAILEY (1960), *Assistant Professor of Art*
B.F.A., 1958, Kansas City Art Institute; M.F.A., 1960, University of Indiana.
- LEO J. DAVIS (1939), *Associate Professor of Health and Physical Education*
B.A., 1933, Bethel College; M.A., 1940, George Peabody College.
- JOHN E. DEWS, Jr. (1960), *Instructor in Psychology*
B.S., 1956, Tulane University.
- BARBARA MARTHA DOWD (1961), *Instructor in Health and Physical Education*
B.S., 1957, Memphis State University; M.A., 1958, University of Alabama.
- PAUL B. EAHEART (1946), *Professor of Music*
B.S., 1937, Memphis State University; M.A., 1946, Northwestern University.
- JOHN BLANTON EDGAR, JR. (1960), *Instructor in Management*
B.S., 1940, U. S. Naval Academy; Vet. Cert., 1947, Howard School of Business Administration; M.A., 1961, Memphis State University.
- O. DEAN EHLERS (1956), *Assistant Professor of Health and Physical Education*
B.S., 1951, Central College; M.Ed., 1955, University of Missouri.
- VIRGINIA ANGELINE ELEAZER (1961), *Instructor in Biology*
B.S.E., 1940, M.S., 1943, University of Tennessee.
- *JOHN H. ELLIS (1959), *Instructor in History*
B.S., 1955, M.A., 1957, Memphis State University.
- MAXWELL EMERSON (1960), *Instructor in Management*
B.S.C., 1957, Roosevelt University; M.A., 1961, Memphis State University.
- BRODIE TRAVIS ESTES (1951), *Assistant Professor of Chemistry*
B.S., 1947, M.A., 1956, Memphis State University.
- JOHN Y. EUBANK, JR. (1961), *Instructor in Education*
B.S., 1954, M.A., 1960, Memphis State University.
- HENRY B. EVANS (1942), *Professor of English*
B.S., 1923, M.A., 1928, Ph.D., 1938, George Peabody College.

* On leave of absence, 1961-62

- WILLIAM FARRIMOND (1961), *Instructor in Mathematics*
B.S., 1936, University of Illinois.
- JOHN EDWARD FARRIOR (1948), *Professor of English*
B.A., 1939, M.A., 1944, Ph.D., 1954, University of North Carolina.
- VICTOR FEISAL (1959), *Instructor in Biology*
B.S., 1958, Memphis State University; M.S., 1960, University of Houston.
- THOMAS C. FERGUSON (1960), *Assistant Professor of Music*
B.M.E., 1954, Murray State College; M.M., 1956, Eastman School of Music, University of Rochester.
- JAMES ROY FITZPATRICK (1954), *Assistant Professor of Accountancy*
B.S., 1948, Tennessee Polytechnic Institute; M.S., 1951, University of Kentucky.
- LORETTA DYER FLOYD (1952), *Assistant Professor of Health and Physical Education*
B.S., 1946, Alabama State College for Women; M.A., 1947, New York University.
- DEWEY BRAY FOLDEN, JR., (1949), *Associate Professor of Biology*
B.S., 1947, B.A., 1948, Morris Harvey College; M.S., 1949, West Virginia University.
- EUGENE HENRY FOX (1959), *Associate Professor of Management*
B.S., 1956, Northern States College.
- JESSE WELLS FOX (1947), *Professor of Chemistry*
B.S., 1931, M.A., 1937, George Peabody College.
- MAUDE GREENE FOX (1947), *Instructor in English*
B.S., 1937, M.A., 1940, George Peabody College.
- ROGER W. FRENCH (1956), *Instructor in Health and Physical Education*
B.S., 1956, University of Minnesota; M.A., 1959, Memphis State University.
- HOWARD EDWARD FRYE (1955), *Assistant Professor of Geography*
B.S., 1951, Eastern Michigan University; M.A., 1954, University of Michigan.
- JOSEPH M. GARZA, (1961), *Instructor in Sociology*
B.A., 1959, Southeastern Louisiana College; M.S., 1961, Florida State University.
- ROBERT WILLIAM GELINAS (1958), *Assistant Professor of Art*
B.F.A., 1956, M.A., 1958, University of Alabama.
- WILLIAM R. GILLASPIE (1961), *Assistant Professor of History*
B.A., 1952, Westminster College; M.A., 1954, University of Missouri; Ph.D., 1961, University of Florida.
- JOHN RAMSEY GORDON (1947), *Professor of Sociology*
B.A., 1929, M.A., 1932, Baylor University; Ph.D., 1951, University of Texas.

- FRANK H. GOVAN (1956), *Associate Professor of Art*
B.A., 1938, Hendrix College; M.A., 1951, Columbia University.
- PEGGY WATSON GOVAN (1961), *Instructor in Art*
B.S.E., 1956, Arkansas State Teachers College; M.A., 1961, Memphis State University.
- FRANK MARLIN GRIMES (1961), *Instructor in English*
B.A., 1958, M.A., 1961, University of Mississippi.
- *PERCY L. GUYTON (1954), *Professor of Economics and Finance*
B.S., 1927, Mississippi State College; M.B.A., 1932, Northwestern University; Ph.D., 1952, Duke University.
- GEORGE JONES HARRIS (1947), *Professor of Music*
B.A., 1936, Greenville College; M.M., 1947, Northwestern University.
- JOSEPH WESLEY HART (1959), *Assistant Professor of Sociology*
B.S., 1952, M.E., 1953, Ed.D., 1960, North Texas State College.
- McKINLEY J. HATHAWAY (1959), Captain, United States Air Force; *Assistant Professor of Air Science*
B.S., 1948, Memphis State University; M.A., 1950, George Peabody College.
- RALPH L. HATLEY (1947), *Professor of Health and Physical Education*
B.S., 1936, M.S., 1950, University of Tennessee.
- HERSCHEL MOORE HAYES (1952), *Associate Professor of Chemistry*
B.S., 1949, Middle Tennessee State College; M.A., 1950, George Peabody College.
- ALBERT FORD HAYNES, JR. (1954), *Associate Professor of Education*
B.S., 1941, M.A., 1954, Memphis State University; Ed.D., 1958, University of Tennessee.
- VELMA BROOKS HEATHERLY (1932), *Associate Professor of French*
B.S., 1928, M.A., 1932, George Peabody College.
- MYLO L. HEEN (1961), *Instructor in Mathematics*
B.S., 1938, University of North Dakota; M.S., 1961, Purdue University.
- BESS LEE HENDERSON (1927), *Associate Professor of Home Economics*
B.S., 1921, George Peabody College; M.A., 1927, Columbia University.
- EMMA CLAIRE HENRY (1955), *Instructor in Education*
B.S., 1952, M.A., 1953, Memphis State University.
- FLOYD RUBIN HERZOG (1961), *Instructor in Speech and Drama*
B.S., 1959, Memphis State University; M.S., 1962, Purdue University.
- JOHN R. HIRSCHMANN (1955), *Instructor in Industrial Arts*
B.S., 1953, Memphis State University; M.A., 1958, George Peabody College.

* On leave of absence, 1961-62

- JAMES ANDREW HODGES (1961), *Assistant Professor of History*
B.S., 1955, Florence State College; M.A., 1959, Vanderbilt University.
- KENNETH J. HOLCOMB (1961), *Associate Professor of Economics and Finance*
B.S.B.A., 1947, M.A., 1954, Ph.D., 1962, University of Arkansas.
- W. SLATER HOLLIS (1961), *Assistant Professor of Economics and Finance*
B.S.B.A., 1952, LL.B., 1958, University of Arkansas.
- ELMORE HOLMES (1947), *Professor of Chemistry*
B.S., 1922, Princeton University; M.A., 1926, Columbia University; Ph.D., 1947, University of Tennessee.
- ELMO H. HOWELL (1957), *Associate Professor of English*
B.A., 1940, University of Mississippi; M.A., 1948; Ph.D., 1955, University of Florida.
- GOLDEN LEON HOWELL (1961), *Assistant Professor of Biology*
B.S., 1950; M.S., 1954, Ph.D., 1959, University of Alabama.
- CHARLES CARROLL IJAMS (1947), *Professor of Physics*
B.A., 1936, Union University; M.S., 1937, Ph.D., 1941, Vanderbilt University.
- FLORENCE V. ILLING, R.N. (1951), *Assistant Professor of Health and Physical Education and Director of Health Services*
G.N., 1936, Medical College of South Carolina; B.S., 1950, George Peabody College; M.A., 1953, Memphis State University.
- SAM HARRIS INGRAM (1962), *Associate Professor of Education*
B.S., 1951, Bethel College; M.A., 1953, Memphis State University; Ed.D., 1959, University of Tennessee.
- WILLIAM ROBERT INGRAM (1957), *Assistant Professor of Marketing*
B.S., 1956, Arkansas Polytechnic College; M.B.A., 1957, University of Arkansas.
- OVERTON PHILIP JAMES (1957), *Instructor in English*
B.S., 1956, Arkansas Polytechnic College; M.B.A., 1957, University of B.A., 1940, Arkansas College; M.A., 1946, University of Chicago.
- RIENZI WILSON JENNINGS (1951), *Professor of Secretarial Science and Office Management*
B.S., 1927, State University of Iowa; M.A., 1928, Ph.D., 1949, University of Kentucky.
- WILLIAM T. JESSEN (1958), Major, United States Air Force
Assistant Professor of Air Science
B.S.I.M., 1949, University of Arkansas; M.A., 1961, Memphis State University.
- DANA DOANE JOHNSON (1954), *Professor of Art*
B.A., 1937, Dartmouth; M.Ed., 1947, Ed.D., 1954, Boston University.

- GLENN ALBERT JOHNSON (1956), *Instructor in Health and Physical Education*
B.A., 1924, Huntington College; M.A., 1930, Columbia University.
- RAYBURN W. JOHNSON (1925), *Professor of Geography*
B.S., 1924, M.A., 1925, George Peabody College; Ph.D., 1936, University of Chicago.
- SAM HOWARD JOHNSON (1949), *Professor of Education; Director of The School of Education*
B.S., 1931, Murray State College; M.Ed., 1939, Duke University; Ed.D., 1954, New York University.
- VIRGINIA LEE JOHNSON (1940), *Associate Professor of Secretarial Science and Office Management*
B.S., 1930, Memphis State University; M.S., 1944, University of Tennessee.
- ELLIS M. JONES, JR. (1961), *Lieutenant Colonel, United States Air Force; Assistant Professor of Air Science*
B.S., 1958, Syracuse University.
- HELEN H. KALTENBORN (1946), *Instructor in Mathematics*
B.A., 1931, Barnard College; M.A., 1934, Columbia University; Ph.D., 1934, University of Michigan.
- HOWARD S. KALTENBORN (1946), *Professor of Mathematics*
B.S., 1928, Carnegie Institute of Technology; M.S., 1931, Ph.D., 1934, University of Michigan.
- ROBERT HARRELD KARRAKER (1961), *Assistant Professor of Chemistry*
B.A., 1953, Southern Illinois University; Ph.D., 1961, Iowa State University.
- BETTY S. KEASLER (1960), *Instructor in Education*
B.S., 1954, Anderson College; M.A., 1959, Denver University.
- IRL BROWN KRAUSE (1957), *Associate Professor of Education*
B.A., 1944, Westminster College; M.A., 1949, Ed.D., 1954, University of Mississippi.
- EUGENE W. LAMBERT (1950), *Professor of Health and Physical Education*
B.S., 1930, University of Arkansas; M.Ed., 1935, University of Texas, Ed.D., 1942, Columbia University.
- FREDERIC O. LARRABEE (1954), *Associate Professor of Management*
B.A., 1927, LL.B., 1930, State University of Iowa.
- HOMER A. LAWRENCE, JR. (1960), *Assistant Professor of Industrial Arts*
B.S., 1951, East Texas State College; M.Ed., 1956, North Texas State College.

- CHARLES E. LONG (1957), *Assistant Professor of German*
 B.A., 1951, Henderson State Teachers College; M.A. (English), 1955,
 M.A. (German), 1956, University of Arkansas.
- JAMES EUGENE MCALPIN (1961), *Instructor in Industrial Arts*
 B.S., 1957, Memphis State University; M.A., 1959, George Peabody Col-
 lege.
- ELNA BROWNING MCBRIDE (1946), *Associate Professor of Mathe-
 matics*
 B.S., 1930, M.S., 1931, University of Tennessee.
- JAMES RAYMOND MCCANN (1955), *Professor of Psychology*
 B.A., 1950, Washington University; M.A., 1952, University of Kansas
 City; Ph.D., 1955, Vanderbilt University.
- ROBERT W. MCGOWAN (1949), *Associate Professor of Biology*
 B.A., 1946, Lambuth College; M.A., 1947, George Peabody College.
- WAYNE MCLAURIN (1950), *Instructor in English*
 B.S., 1948, Memphis State University; M.A., 1951, Duke University.
- JOHN ANDERSON MCLEMORE (1956), *Instructor in English*
 B.S., 1956, M.A., 1957, Memphis State University.
- HERBERT JOHN MARKLE (1951), *Professor of Economics and
 Finance; Director of The School of Business Administration*
 B.B.A., 1932, University of Minnesota; M.A., 1940, Ph.D., 1951, State
 University of Iowa.
- IRMA GREER MARKS (1944), *Instructor in Chemistry*
 B.S., 1944, Memphis State University; M.S., 1950, University of Arkan-
 sas.
- ROBERT HERMAN MARSHALL (1960), *Associate Professor of Chem-
 istry*
 B.S., 1947, M.S., 1950, Illinois State Normal University; Ph.D., 1954,
 University of Illinois.
- JAMES S. MATTHEWS (1949), *Associate Professor of Geography*
 B.S., 1936, M.A., 1941, Kent State University; Ph.D., 1949, University
 of Chicago.
- ENOCH L. MITCHELL (1939), *Professor of History*
 B.S., 1929, Memphis State University; M.A., 1938, George Peabody
 College.
- NELLE ELIZABETH MOORE (1956), *Assistant Professor of Education*
 B.A., 1930, Lambuth College; M.A., 1946, Duke University.
- *FRANK MORGAN (1958), *Instructor in English*
 B.A., 1954, Mississippi College; M.A., 1957, University of Mississippi.
- WILLIAM MACK MORROW (1961), *Assistant Professor of Political
 Science*
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* On leave of absence, 1961-62.

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- BILLY J. MURPHY (1947), *Instructor in Health and Physical Education*
B.S., 1946, Mississippi State University.
- CHARLES H. NASH (1961), *Instructor in Anthropology; Director of Chucalissa Museum*
B.A., 1932, Beloit College.
- DELBERT P. NAVE (1950), *Assistant Professor of Art*
B.Ed., 1934, Eastern Illinois University; M.A., 1939, Ohio State University.
- EMIL CHARLES NEMITZ (1954), *Assistant Professor of Chemistry*
B.S., 1922, University of Illinois; M.A., 1955, Memphis State University.
- ELBERT F. NOTHERN (1958), *Associate Professor of Education*
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- *ROBERT LEE OGLE (1955), *Instructor in Industrial Arts*
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- MARCUS W. ORR (1959), *Assistant Professor of History*
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- WILLIAM ROBERT OSBORNE (1955), *Associate Professor of English*
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- HARRISON KIRKLAND OSOINACH (1961), *Instructor in Anthropology*
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- BETTY HULL OWEN (1959), *Instructor in Health and Physical Education*
B.S., 1956, Memphis State University; M.P.E., 1960, Purdue University.
- GEORGE WILSON PARCHMAN (1951), *Associate Professor of Biology*
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- LEA GIBBS PARK (1954), *Instructor in Speech and Drama*
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- JOHN WEST PATRICK (1962), *Instructor in Health and Physical Education*
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- BINFORD HARDY PEEPLES (1957), *Assistant Professor of Accountancy*
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- CARROLL L. PELL (1961), *Associate Professor of French*
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- ELIZABETH CROW PHILLIPS (1953), *Associate Professor of English*
B.A., 1928, Maryville College; M.A., 1949, Ph.D., 1953, University of Tennessee.
- CARTHON P. PHILLIPS (1959), Major, United States Air Force;
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B.S., 1956, University of Maryland.
- MEREDITH POOLE (1955), *Assistant Professor of Mathematics*
B.A., 1950, M.A., 1955, University of Mississippi.
- VONNE FRANK PORTER (1957), *Associate Professor of Psychology*
B.A., 1948, University of Missouri; M.A., 1951, University of Kansas City; Ph.D., 1953, Vanderbilt University.
- LARRY HOLMES POTTER (1952), *Assistant Professor of Mathematics*
B.A.E., 1943, M.A., 1949, University of Florida.
- MINNIE McRAE POWELL (1958), *Assistant Professor of Education*
B.S., 1942, Memphis State University; M.A., 1949, University of Tennessee.
- ROBERT J. PRENDEVILLE (1959), *Assistant Professor of Speech and Drama*
B.A., 1942, University of New Mexico; M.A., 1946, Northwestern University.
- BEN FRANCIS PREWITT (1959), *Instructor in Mathematics*
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- FRANKLIN SEARCY PRICE (1960), *Instructor in Health and Physical Education*
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- ISABEL R. PULLEN (1961), *Instructor in French*
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- NOEL GEORGE RAPP (1954), *Associate Professor of Speech and Drama*
B.A., 1941, Kent State University; Ph.D., 1955, Purdue University.
- RICHARD JAY RARIDON (1958), *Associate Professor of Physics*
B.A., 1953, Grinnell College; M.A., 1955, Ph.D., 1958, Vanderbilt University.

- FLORA HAYES RAWLS (1930), *Professor of Education; Dean of Women*
B.A., 1925, M.A., 1930, Vanderbilt University.
- HENRY L. REEVES (1953), *Assistant Professor of Mathematics*
B.S., 1947, University of Alabama; M.A., 1951, George Peabody College.
- M. GENEVA REID (1961), *Instructor in English*
B.A., 1957, Alabama College; M.A., 1959, University of Tennessee.
- JOHN W. RICHARDSON (1959), *Professor of Education; Director of The Graduate School*
B.S., 1931, Murray State College; M.Ed., 1939, Duke University; Ed.D., 1957, New York University.
- MYRTLE PARKE RICHARDSON (1959), *Instructor in Education; Director of Placement and Certification*
B.A., 1931, Murray State College.
- JOSEPH HOWARD RIGGS (1955), *Assistant Professor of Speech and Drama*
B.A., 1952, Alderson-Broaddus; M.A., 1953, West Virginia University; Ph.D., 1962, University of Illinois.
- JOSEPH RAYMOND RILEY (1954), *Instructor in English*
B.S., 1949, Memphis State University; M.A., 1953, Vanderbilt University.
- ELMA NEAL ROANE (1946), *Associate Professor of Health and Physical Education*
B.S., 1940, Memphis State University; M.S., 1943, University of Tennessee.
- JOHN LINCOLN ROBERTS (1954), *Associate Professor of Secretarial Science and Office Management*
B.S., 1948, Eastern Illinois University; M.A., 1950, George Peabody College; Ph.D., 1962, State University of Iowa.
- CHARLES NELSON ROBINSON (1961), *Associate Professor of Chemistry*
B.S., 1949, Maryville College; M.S., 1951, Ph.D., 1953, University of Tennessee.
- CLAYTON R. ROBINSON (1961), *Instructor in English*
B.A., 1959, Trinity University; M.A., 1960, Mississippi Southern College.
- A. S. RUDOLPH (1945), *Professor of Biology*
B.S., 1924, Western Kentucky State Teachers College; M.S., 1929, University of Kentucky; Ph.D., 1938, Iowa State University.
- HEBER ELIOT RUMBLE (1946), *Professor of Education; Director of The Summer Session*
B.S., 1924, Oakland City College; M.A., 1933, Ph.D., 1943, University of Illinois.
- LUTHER W. SANDERS (1961), *Instructor in Journalism*
B.S., 1960, Memphis State University.

- LADA MOORE SANDS (1951), *Instructor in Home Economics*
B.S., 1939, M.A., 1957, Memphis State University.
- FRANK B. SCHIRMER, JR. (1959), *Associate Professor of Chemistry*
B.S., 1934, Clemson College; Ph.D., 1939, Cornell University.
- JOHN EDWARD SCHWAIGER (1956), *Instructor in Chemistry*
B.S., 1940, M.A., 1960, Memphis State University.
- CLARENCE LITTLETON SCOTT (1960), *Assistant Professor of Music*
B.M., 1951, M.M., 1951, University of Texas.
- E. B. SCOTT, JR. (1955), *Assistant Professor of Health and Physical Education*
B.A., 1947, M.A., 1948, Colorado State College of Education; H.S.D., 1953, P.E.D., 1954, Indiana University.
- DOROTHY RIVERS SEAY (1950), *Associate Professor of English*
B.A., 1918, Randolph-Macon; M.A., 1927, Ph.D., 1940, University of Chicago.
- THOMAS PAGE SHARP (1959), *Assistant Professor of Management*
B.S., 1957, M.S., 1959, Mississippi State University.
- DARRELL D. SIMMONS (1950), *Assistant Professor of Industrial Arts*
B.S., 1940, Arkansas State Teachers College; M.S. 1949, Oklahoma Agricultural and Mechanical College; Ed.D., 1958, University of Tennessee.
- PAUL RAYMOND SIMONTON (1955), *Instructor in Biology*
B.S., 1955, M.A., 1961, Memphis State University.
- PAUL HARDEMAN SISCO (1947), *Professor of Geography*
B.S., 1934, Memphis State University; M.A., 1947, George Peabody College; Ph.D., 1954, University of Chicago.
- JOHANNES SMIT (1960), *Assistant Professor of Music*
B.S., 1948, M.S., 1949, Juilliard School of Music; Ph.D., 1953, Eastman School of Music, University of Rochester.
- ALFRED WINN SMITH (1954), *Associate Professor of English*
B.A., 1933, M.A., 1934, Vanderbilt University; Ph.D., 1954, George Peabody College.
- A. EUGENE SMITH (1960), *Instructor in Health and Physical Education*
B.S., 1949, Sterling College; M.S., 1954, Indiana University.
- CARL BUCHANAN SMITH, JR. (1961), *Assistant Professor of Psychology*
B.S., 1941, Syracuse University; Ph.D., 1956, University of Texas.
- OMAR EWING SMITH (1961), *Assistant Professor of Biology*
B.S., 1954, Memphis State University; M.S., 1958, Ph.D., 1961, Iowa State University.
- PAUL HUBERT SMITH (1960), *Assistant Professor of History*
B.A., 1954, M.A., 1955, Bowling Green State University; Ph.D., 1962, University of Michigan.

- TERRY R. SMITH (1960), Captain, United States Air Force;
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B.S., 1950, Texas Technological College.
- WALTER RHEA SMITH (1951), *Professor of English; Director of The School of Arts and Sciences*
B.A., 1939, Lambuth College; M.A., 1940, Southern Methodist University; Ph.D., 1951, University of California.
- WILL D. SMITH (1960), *Associate Professor of Education*
B.A., 1938, M.A., 1939, Vanderbilt University; Ph.D., 1952, George Peabody College.
- JOHN A. SOBOL (1949), *Assistant Professor of Geography*
B.S., 1942, Massachusetts State Teachers College; M.A., 1949, Clark University; Ph.D., 1961, University of Michigan.
- ELIZABETH SUPPLEE SPENCER (1956), *Assistant Professor of Journalism*
B.A., 1937, Cornell University; B.J., 1940, M.A., 1941, University of Missouri.
- JESSE WATSON SPICELAND (1949), *Professor of Accountancy*
B.S., 1947, Southern Illinois University; M.S.B.A., 1948, Washington University; C.P.A., 1951, Tennessee.
- CHARLES ROBERT SPINDLER (1950), *Professor of Marketing*
B.S., 1939, Northeast Missouri State Teachers College; M.A., 1942, State University of Iowa.
- JULIE WORTH SPRUNT (1957), *Instructor in Psychology*
B.A., 1945, Mary Baldwin College; M.A., 1947, University of Virginia.
- HAROLD WILLIAM STEPHENS (1960), *Associate Professor of Mathematics*
B.S., 1941, New Jersey State College; M.A., 1944, Columbia University.
- CALVIN MOORMAN STREET (1939), *Professor of Education; Director of The Evening Division*
B.S., 1939, Memphis State University; M.S., 1946, Ed.D., 1953, University of Tennessee.
- FRANCES LOUISE STREET (1957), *Assistant Professor of Mathematics*
B.S., 1940, Memphis State University; M.S., 1947, University of Tennessee.
- HARRY HARMON SUMMER (1961), *Associate Professor of Marketing*
B.B.A., 1958, Memphis State University; M.S., 1961, University of Illinois.
- RAYMOND L. TANNER (1955), *Assistant Professor of Physics*
B.S., 1953, Memphis State University; M.S., 1955, Vanderbilt University.
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B.A., 1940, LL.B., 1951, University of Mississippi; LL.M., 1955, New York University.

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- HAL M. TERRY, JR. (1958), *Major, United States Air Force; Assistant Professor of Air Science*
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- JAMES THOMAS THOMPSON (1955), *Professor of Accountancy*
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- MALRA CLIFFT TREECE (1957), *Instructor in Secretarial Science and Office Management*
B.S., 1947, Arkansas State College; M.A., 1956, Memphis State University.
- CLARENCE LAZEAR UNDERWOOD (1950), *Associate Professor of Education*
B.S.Agr., 1918, West Virginia University; M.S., 1920, Ohio State University; Ph.D., 1935, University of Pittsburgh.
- BUFORD CECIL UTLEY (1956), *Assistant Professor of History*
B.S., 1951, Memphis State University; M.A., 1953, George Washington University.
- ROBERT VANATTA (1956), *Associate Professor of Health and Physical Education*
B.A., 1942, Central College; M.A., 1947, University of Missouri.
- DESIDER VIKOR (1957), *Assistant Professor of Economics and Finance*
J.U.D., 1938, Francis Joseph University (Hungary); M.A., 1955, Washington University; Ph.D., 1959, St. Louis University.
- EMMETT CARLETON WAGGONER (1961), *Instructor in Mathematics*
B.A., 1931, M.A., 1949, University of Mississippi.
- JAMES WILSON WAITES (1960), *Instructor in Physical Education*
B.A., 1937, Howard College; M.A., 1956, Trinity University.
- DAVID TUTHERLY WALKER (1955), *Assistant Professor of Mathematics*
B.S., 1949, Wofford College; M.S., 1951, Ph.D., 1955, University of Georgia.
- WILLIA EDWARD WALKER (1960), *Assistant Professor of English*
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- DAN H. WARMBROD (1961), *Instructor in Biology*
B.S., 1953, Middle Tennessee State College; M.A., 1954, George Peabody College.

- ROY E. WATKINS (1957), *Professor of Classical Languages*
B.A., 1933, Luther College; M.A., (Classics), 1934; M.A., (German), 1952; Ph.D., (Classics), 1940, State University of Iowa.
- GEORGE ALLEN WESTLAND (1957), *Assistant Professor of Journalism*
B.J., 1949, M.A., 1957, University of Missouri.
- MARY ALMA WHITAKER (1947), *Assistant Professor of Home Economics*
B.S., 1929, Memphis State University; M.S., 1941, University of Tennessee.
- LONNIE J. WHITE (1961), *Assistant Professor of History*
B.A., 1950, West Texas State College; M.A., 1955, Texas Technological College; Ph.D., 1961, University of Texas.
- BRADFORD WHITE (1948), *Professor of Speech and Drama*
B.A., 1934, University of North Carolina; M.F.A., 1939, Yale University.
- CLEO DUKE WILDER, JR. (1959), *Assistant Professor of Biology*
B.A., 1948, University of North Carolina; M.S., 1951, University of Tennessee.
- HEBERT LEE WILLIAMS (1956), *Professor of Journalism*
B.A., 1940, Murray State College; M.A., 1941, University of Mississippi; Ph.D., 1955, University of Missouri.
- WILLIAM ROBERT WILLIAMS (1961), *Instructor in English*
B.A., 1957, Lambuth College; M.A., 1961, Memphis State University.
- JOHN ALLEN WINFREY (1958), *Instructor in Mathematics*
B.S., 1926, U.S. Naval Academy; M.S., 1958, Memphis State University.
- RUTH G. WOODBURY (1953), *Instructor in History*
B.A., 1940, M.A., 1947, University of Mississippi.
- JAMES DUDLEY WOOLF (1959), *Assistant Professor of English*
B.A., 1942, The College of the Ozarks; M.A., 1949, University of Michigan; Ph.D., 1953, Vanderbilt University.
- OLIVER SLATON WOOLLARD, JR. (1959), Major, United States Air Force; *Assistant Professor of Air Science*
B.S., 1955, Florida State University.
- MILTON LEROY WRAY (1957), *Assistant Professor of Accountancy*
B.A., 1951, Southwestern at Memphis; M.B.A., 1954, Wharton School of Finance and Commerce, University of Pennsylvania; LL.B., 1960, Southern Law University; C.P.A., 1956, Tennessee.
- LAWRENCE WYNN (1950), *Professor of English*
B.A., 1936, Emory University; M.A., 1940, Duke University; M.A., 1947, Ph.D., 1951, Princeton University.

SPECIAL INSTRUCTORS

CHARLES ADAMS, *English*

B.S., 1959, Memphis State University; M.A., 1961, State University of Iowa.

MILTON CALDWELL ADDINGTON, *Psychology*

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B.S., 1941, Winthrop College; M.A., 1950, Tulane University.

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B.Hum., 1945, LL.M., 1951, University of Mexico.

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Student of Carlos Salzedo at Dalcroze School of Music and at Curtis Institute of Music; former member of Salzedo Concert Ensemble; principal harpist, Memphis Symphony Orchestra.

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B.B.A., 1957, M.B.A., 1958, University of Mississippi.

MARY ANN DAILEY, *Art*

B.F.A., 1958, Kansas City Art Institute.

VINCENT DE FRANK, *Violoncello*

Student of Percy Such, George Miguelle, Fritz Magg; conductor and musical director, Memphis Symphony Orchestra.

SEVERA HENRIETTE DEUTSCH, *German*

B.A., 1915, St. Ursula Teachers College, Vienna.

BYRON F. EICHER, *Psychology*

B.S., 1960, M.A., 1962, Memphis State University.

J. FRANK FLY, *Industrial Arts*

B.S., 1950, Tennessee Polytechnic Institute.

EVELYN CARTER FOOTE, *English*

B.S., in Ed., 1937, M.A., 1939, University of Tennessee.

NOEL GILBERT, *Stringed Instruments*

Student of Joseph Henkel, Scipione Guidi. Conductor, Memphis Concert Orchestra.

JACK GOLDMAN, *Hebrew*

B.A., 1953, Rabbinical Ordination, 1958, Yeshiva University.

CHELLIS O'NEAL GREGORY, JR., *Political Science*

B.A., 1958, M.A., 1960, University of Mississippi.

JOSEPH GEORGE GRIESBECK, JR., *Education*

B.A., 1939, Southwestern at Memphis; B.S., 1940, Memphis State University; M.A., 1947, George Peabody College.

RALPH G. HALE, *Brass Instruments*

Student of Frank Simon, Tilden Well. Director of Bands, Christian Brothers College.

ELIZABETH TERRY HAMLIN, *Curriculum and Instruction*

B.A., 1931, Union University; M.A., 1941, Northwestern University.

GABE C. HAWKINS, *Industrial Arts*

B.S., 1940, Mississippi State University.

JOSEPH BURTON HOWELL, *Geography*

B.S., 1960, M.A., 1961, Memphis State University.

JOHN A. IRWIN, *Speech and Drama*

B.A., 1948, Ohio Wesleyan University; M.A., 1950, Western Reserve University; Director, Memphis Speech and Hearing Center.

- W. D. JENSEN, *Sociology*
B.S., 1948, M.D., 1951, University of Minnesota.
- FLORENCE PHYFER KRAUSE, *English*
B.A., 1951, M.A., 1953, University of Mississippi.
- ZELMA W. KUBIK, *English*
B.S., 1936, University of Missouri; M.A., 1961, Memphis State University.
- CHARLES JOSEPH LONG, *Psychology*
B.S., 1960, M.A., 1962, Memphis State University.
- WILLIAM A. MCTIGHE, *History*
B.S., 1936, M.A., 1958, Memphis State University.
- JAMES HENRY MADDEN, *Art*
B.F.A., 1938, M.F.A., 1947, University of Georgia.
- ETHEL TAYLOR MAXWELL, *Voice*
B.A., 1939, Southwestern at Memphis; M.A., 1956, Memphis State University.
- WERNER THEODORE MAY, *Psychology*
B.S., 1950, City College of New York; Ph.D., 1954, University of Tennessee.
- JOHN ETHEL MEASELLS, *Education*
B.S., 1931, M.A., 1946, Memphis State University; B.S.Lib.Sci., 1951, George Peabody College.
- GEORGE V. MORSE, JR., *Marketing*
B.S., 1941, Boston University.
- HAROLD W. PERRY, *Education*
B.A.E., 1948, M.A., 1949, University of Mississippi.
- CHARLES E. POOL, *History*
B.A., 1949, Southwestern at Memphis; LL.B., 1955, Southern Law University; M.A., 1950, University of Mississippi.
- LOUISE D. RAPP, *Biology*
B.S., 1947, Miami University; M.S., 1951, Purdue University.
- MONA HERNDON RARIDON, *Mathematics*
B.A., 1953, Georgetown College.
- ANN SKERRATT RICHARDSON, *Art*
B.A., 1949, Wells College; M.A., 1960, Memphis State University.
- JEROME P. ROBERTSON, *Voice*
Student of Percy Rector Stephens, 1921-23; Enrico Rosati, 1924-25; Robert Hosea, 1926-27; Basil Ruysdael, 1928; Albert Jenotte, 1929; Gaetano DeLuca, 1930; Doctor of Music (Honoris Causa), 1958, Belhaven College; Director of Music, Second Presbyterian Church.
- DOROTHY GERTRUDE ROSS, *Art*
B.A., 1951, M.A., 1953, University of Minnesota.

SYDNEY RUDMAN, *Education*

B.S., 1942, M.Ed., 1947, Pennsylvania State University.

RICHARD THOMAS SCHEFFER, *Industrial Arts*

B.S., 1960, Memphis State University.

KATHERINE B. SEVEDGE, *Education*

B.S., 1933, M.A., 1952, Memphis State University.

SHELDON SPRUELL, *French*

B.A., 1958, University of Tennessee; Certificate d'etudes des Francaises, University of Poitiers, France.

HENRY V. SUTTON, *Speech and Drama*

B.S., 1959, Memphis State University; LL.B., 1961, Vanderbilt University.

MINAPERLE TAYLOR, *Voice*

B.A., 1923, M.M., 1925, Chicago Musical College.

JAMES HARVEY TERRY, *Single Reed Instruments*

B.S., 1952, Memphis State University.

BILLY JOE VAUGHN, *Industrial Arts*

B.S., 1955, M.S., 1959, Memphis State University.

NICHOLAS JOHN VERGOS, *Double Reed Instruments*

B.S., 1955, Memphis State University.

GOUGH WHEAT, *Mathematics*

B.S., 1949, M.S., 1954, Memphis State University.

HAROLD C. WILSON, *Industrial Arts*

B.S., 1958, M.S., 1960, Memphis State University.

GRADY G. WOODY, *Education*

B.S., 1951, Union University; M.A., 1958, Memphis State University.

ROSESTELLE BACH WOOLNER, *Education*

B.S., 1958, M.A., 1960, Memphis State University.

THE FACULTY COUNCIL

OFFICERS

PROFESSOR LAWRENCE WYNN, *Chairman*

PROFESSOR AARON BOOM, *Vice-Chairman*

ASSISTANT PROFESSOR JOSEPH RIGGS, *Secretary*

Members whose terms expire May, 1962:

PROFESSORS BANNON, McCANN, and TONNING

ASSOCIATE PROFESSORS HAYNES, NOTHERN, RARIDON, and
SIMMONS

ASSISTANT PROFESSOR PEEPLES

Members whose terms expire May, 1963:

PROFESSORS BOOM, EAHEART, and HARRIS

ASSOCIATE PROFESSOR MATTHEWS

ASSISTANT PROFESSORS BOYD and RIGGS

Members whose terms expire May, 1964:

PROFESSORS HATLEY and WYNN

ASSOCIATE PROFESSORS LARRABEE and McGOWAN

ASSISTANT PROFESSOR CURRY

STANDING UNIVERSITY COMMITTEES

1961 - 1962

The President is a member of all committees; the first member named on each committee is the chairman; the use of a position title indicates *ex officio* membership. Appointments extend from September through August of the academic year.

ATHLETIC: DEAN ROBISON; MR. NEWPORT; PROFESSORS COLTHARP, R. W. JOHNSON, and MITCHELL; ASSOCIATE PROFESSORS HAYNES and LARRABEE.

BUILDINGS AND GROUNDS: PROFESSOR STREET; ASSOCIATE PROFESSORS MCGOWAN and RAPP; ASSISTANT PROFESSORS WILLIAM INGRAM and BROTHERTON.

THE DESOTO: PROFESSOR WILLIAMS; MR. NEWPORT; PROFESSOR DANA JOHNSON; president of the Student Government Association; editor of *The DeSoto*.

DISCIPLINE: DEAN ROBISON, DEAN RAWLS, DEAN PRATT; PROFESSOR McCANN; ASSOCIATE PROFESSOR BROWNLEE.

ENTRANCE AND CREDITS: MR. CLARK; PROFESSORS RUMBLE and SISCO; ASSOCIATE PROFESSORS VIRGINIA JOHNSON and SIMMONS; ASSISTANT PROFESSOR RIGGS.

EXTENSION: PROFESSOR CRADER; MR. CLARK; PROFESSORS SAM JOHNSON, MARKLE, and WALTER SMITH.

FACULTY TENURE: PROFESSOR GORDON; PROFESSORS BANNON, J. W. FOX, and JOHN RICHARDSON; the chairman of the department concerned.

LIBRARY: PROFESSOR BOOM; MR. ELLISON BROWN; PROFESSORS MARKLE and WYNN; ASSOCIATE PROFESSOR NOTHERN.

PRE-ENGINEERING ADVISORY: ASSOCIATE PROFESSORS CLAYPOOL, MCBRIDE, and RARIDON; ASSISTANT PROFESSOR BETHANY; MR. HAWKINS.

PRELAW ADVISORY: PROFESSOR BUELL; ASSOCIATE PROFESSOR LARRABEE; ASSISTANT PROFESSORS ARENDS, CURRY, and WRAY.

PRE-MEDICAL ADVISORY: PROFESSOR HOLMES; ASSOCIATE PROFESSOR HAYES; ASSISTANT PROFESSOR OMAR SMITH; MR. COTHAM and MR. SIMONTON.

PUBLIC PROGRAMS: PROFESSOR HARRIS; DEAN RAWLS; PROFESSOR WALTER SMITH; ASSOCIATE PROFESSORS BENCE and PHILLIPS.

RELIGIOUS ACTIVITIES: ASSISTANT PROFESSOR WRAY; DR. HUDSON; PROFESSOR EVANS; ASSOCIATE PROFESSORS HENDERSON and SEAY.

SCHOLARSHIPS AND LOANS: MR. EUBANK; DEAN RAWLS, DEAN PRATT; PROFESSOR THOMPSON; ASSOCIATE PROFESSOR MATTHEWS.

STUDENT ACTIVITIES: DEAN RAWLS; MR. NEWPORT; PROFESSOR JENNINGS; ASSOCIATE PROFESSOR ROANE; ASSISTANT PROFESSOR POWELL; presidents of the freshman, sophomore junior, and senior classes.

STUDENT ACTIVITIES CONTROL BOARD: DEAN RAWLS, DEAN ROBISON, DEAN PRATT; PROFESSOR JENNINGS; president of the Inter-Fraternity Council; president of the Panhellenic Council; and the following independent students: HARRY CLIMER and JUDITH GIBBS.

STUDENT ELECTIONS: DEAN ROBISON, DEAN RAWLS, DEAN PRATT; PROFESSOR HATLEY; ASSISTANT PROFESSOR WILLIAM INGRAM.

TELEVISION: PROFESSOR CALVIN STREET; PROFESSORS IJAMS, SAM JOHNSON, MARKLE, and WALTER SMITH.

THE TIGER RAG: ASSISTANT PROFESSOR SPENCER; MR. NEWPORT; ASSOCIATE PROFESSORS HEATHERLY, SCHIRMER, and ALFRED SMITH; president of the Student Government Association; editor of *The Tiger Rag*.

THE UNIVERSITY TRAINING SCHOOL

- GRADY G. WOODY (1958), *Principal*
B.S., 1951, Union University; M.S., 1958, Memphis State University.
- PERRY MANDIVILLE ALEXANDER (1947), *Supervising Teacher, First Grade*
B.S., 1951, M.A., 1953, Memphis State University.
- MARY ELIZABETH ANDERSON (1951), *Supervising Teacher, Third Grade*
B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.
- SOPHIA CLARK BROTHERTON (1961), *Supervising Teacher, First Grade*
B.S., 1956, M.A., 1961, Memphis State University.
- RENA OPAL COLEMAN (1931), *Supervising Teacher, Third Grade*
B.A., 1925, Texas Woman's University; M.A., 1932, George Peabody College.
- MARY CRUNK DUNN (1924), *Supervising Teacher, Second Grade*
B.S., 1928, M.A., 1933, George Peabody College.
- SARAH LEE FOSTER (1955), *Supervising Teacher, Third Grade*
B.S., 1952, University of Tennessee; M.A., 1957, Memphis State University.
- ELBA GANDY (1946), *Supervising Teacher, Music*
B.M.E., 1944, Louisiana State University; M.M., 1946, Northwestern University.
- PEGGY WATSON GOVAN (1960), *Instructor in Art*
B.S.E., 1956, Arkansas State Teachers College; M.A., 1961, Memphis State University.
- MILDRED MAY GRAGG (1949), *Supervising Teacher, Fifth Grade*
B.S., 1941, Memphis State University; M.A., 1948, George Peabody College.
- GEARY KRILL IRWIN (1959), *Supervising Teacher, Nursery School*
B.A., 1945, University of California.
- JANET TADLOCK JENNINGS (1952), *Supervising Teacher, Fourth Grade*
B.A., 1940, M.A., 1946, University of Kentucky.
- JOHN ETHEL MEASELLS (1946), *Librarian*
B.S., 1931, Memphis State University; M.A., 1946, B.S. in L.S., 1951, George Peabody College.
- AGNES ANN MOORE (1957), *Supervising Teacher, Fifth Grade*
B.S., 1954, M.A., 1957, Memphis State University.
- IRENE MOORE SCHWARTZ (1929), *Supervising Teacher, Fifth Grade*
B.S., 1929, Memphis State University; M.A., 1940, University of Texas.

- VIVIAN A. NEWMAN (1953), *Supervising Teacher, Fourth Grade*
B.S., 1937, M.A., 1954, Memphis State University.
- ANNIE LAURIE PEELER (1930), *Supervising Teacher, Sixth Grade*
B.A., 1913, Meridian Woman's College; B.S., 1929, M.A., 1930, George Peabody College.
- FRANCES HOLMES PETERS (1955), *Supervising Teacher, Sixth Grade*
B.S., 1942, M.A., 1957, Memphis State University.
- NANCY AYCOCK ROGERS (1956), *Supervising Teacher, Sixth Grade*
B.S., 1951, Mississippi State College for Women; M.E., 1954, University of Mississippi.
- DOROTHY ANN SIMMONS (1958), *Supervising Teacher, First Grade*
B.S., 1952, M.A., 1956, Memphis State University.
- JULIA ETTA THOMAS (1947), *Supervising Teacher, Second Grade*
B.S., 1947, Memphis State University; M.A., 1951, George Peabody College.
- LUCILLE WALLIS (1961), *Supervising Teachers, Second Grade*
B.S., 1958, Memphis State University.
- MARY EVELYN WARR (1949), *Supervising Teacher, Fifth Grade*
B.A., 1930, University of Mississippi; M.A., 1952, Memphis State University.
- ROSESTELLE BACH WOOLNER (1959), *Supervising Teacher, Kindergarten.*
B.S., 1958, M.A., 1960, Memphis State University.

THE JOHN WILLARD BRISTER LIBRARY

ELLISON LANGLEY BROWN, B.A., M.A., B.S. in L.S., *Librarian*
 MARY MOZELLE COMMONS, B.A., B.S. in L.S., *Associate Librarian, Circulation*
 DORRICE BRATCHER, B.A., B.S. in L.S., *Reference Librarian*
 WILLIAM WALTER WICKER, B.A., M.S. in L.S., *Serials Librarian*
 MARY JANET MCCAIN, Ph.B., M.S., M.A. in L.S., *Head Cataloger*
 WILLIAM THEODORE JOHNSON, B.A., M.S., *Cataloger*
 NORA E. HOLDEN, B.S., M.A. in L.S., *Special Librarian*
 HELEN L. COLLINS, *Secretary to the Librarian*
 LILLIAN C. SMITH, *Acquisitions Assistant*
 DOROTHY BEASLEY, *Circulation Assistant*
 CAROLYN S. BILLINGS, *Clerk-typist, Cataloging Department*
 FRANCES GREER JOHNSON, *Clerk-typist, Cataloging Department*
 VENITA M. MEDFORD, *Clerk*
 MUZETTE CONNOR, *Clerk*

THE GOODWYN INSTITUTE LECTURES

JENNINGS BURTON GEORGE, B.S., M.A., Ph.D., *Director*

CHUCALISSA INDIAN VILLAGE AND MUSEUM

CHARLES H. NASH, B.A., *Director*
 RODNEY P. GATES, JR., *Curator*

WKNO - TV

(*Memphis Community Television Foundation*)

HOWARD D. HOLST, B.F.A., *Manager and Program Director*
 FRED WILLS, B.S., B.J., M.A., *Traffic Manager - Publicity Director*
 JOHN S. PETERSON, B.S., *Production Manager*
 ROBERT R. NOLLNER, *Chief Engineer*

THE ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

Virginia B. Vickery, B.S., *Secretary to the President*

Eleanor Gaines, *Stenographer*

OFFICES OF THE DEANS

Ethel Lewis, *Secretary to the Dean of Students*

Raimelle Carter, *Secretary to the Dean of Women*

Barbara Kate McBride, B.S., *Graduate Assistant to the Dean of Women*

Patty Evelyn Byrd, *Secretary to the Dean of Men*

OFFICES OF THE SCHOOLS, DIVISIONS, AND DEPARTMENTS

Bonnie Smith McGhee, *Secretary to the Director of The School of Arts and Sciences*

Evelyn Page Fisher, B.S., *Secretary to the Director of The School of Business Administration*

Martha A. Vincent, B.S., *Secretary to the Director of The School of Education*

Carla Brown, *Secretary to the Director of The Graduate School*

Mary Joy Cunningham, *Secretary to the Director of The Summer Session*

Jane Fransiola, *Secretary to the Director of The Evening Division*

Carolyn Alford, *Secretary, The Evening Division*

Dorothy Simpson, *Secretary, The University Training School*

Nancy Lee Bramlett, *Secretary to The Commanding Officer, AF-ROTC Detachment*

Patricia Amyett, *Secretary, Department of Biology*

Mary Maude Crowe, *Secretary, Department of English*

June J. Haire, *Secretary, Department of Geography*

Jean Holmes Branch, *Secretary, Department of Health and Physical Education*

Cleo S. Ferguson, *Secretary, Department of Physical Sciences*

OFFICE OF THE BUSINESS MANAGER

James H. Taylor, B.B.A., *Assistant Business Manager*

Ruth Rowland Hughes, *Statistician*

Ruth Hodge James, *Cashier*

Billy Joe Walker, B.B.A., *Accountant*

Eunice Whitaker, *Accountant*

Stella Margaret Goodloe, B.S., *Secretary to the Business Manager*

OFFICE OF THE DEAN OF ADMISSIONS

Nolen Eugene Bradley, Jr., B.S., M.A., *Assistant Dean of Admissions*

Leon Guyman Hardison, B.S., M.A., *Supervisor of IBM Operations*

Novalyn Smothers, *Recorder*

Virginia Anderson, *Admissions Clerk*

Ann Heustess Ford, B.B.A., *Statistician*

Ellen Virginia Federline, *Secretary to the Dean of Admissions*

Ann Holms, *Stenographer*

Billye Bob Laman, *Transcript Clerk*

Emily Hall Weaver, *IBM Clerk*

REGIONAL SUPERVISORS (*State Department of Education*)

Mary B. Bradford, B.S., M.S., *Supervisor of Instruction*

Ed B. Hudgens, B.S., M.S., *Supervisor of Trade and Industrial Education*

Ruth Erni Knowlton, B.A., M.A., *Supervisor of Modern Foreign Language Instruction*

ALUMNI AND PUBLIC RELATIONS OFFICE

Harry Woodbury, B.S., *Director of Public Relations and Secretary of the Alumni Association*

Betty Botkin Somerville, *Secretary*

SCHOLARSHIPS AND LOANS

John Y. Eubank, Jr., B.S., M.A., *Director of Field Services and Chairman of the Committee on Scholarships and Loans*

Gertrude L. Austin, *Secretary*

UNIVERSITY PLACEMENT OFFICES

Virginia Sims Foreman, *Director of Alumni Placement Service*

Mary Evans Hale, *Director of Student Employment Office, (Tennessee Department of Employment Security)*

Myrtle Parke Richardson, B.A., *Director of Teacher Certification and Placement*

INTERCOLLEGIATE ATHLETICS

Eugene W. Lambert, B.S.E., M.Ed., Ed.D., *Director of Athletics*

Jack P. Bugbee, *Director of Athletic Public Relations*

Mary G. Moll, *Secretary to the Director of Athletics*

Joyce McCall, *Secretary*

OFFICE OF VETERANS' AFFAIRS

Leo J. Davis, B.A., M.A., *Coordinator of Veterans' Affairs*

Rebecca P. Davis, B.A., *Secretary*

BUILDINGS AND GROUNDS

Ray L. Herzog, *Engineer and Maintenance Superintendent*

Robert Clardy, *Assistant Engineer and Maintenance Superintendent*

Wayne Rakestraw, *Storeroom and Supply Clerk*

Betsy Henderson, *Secretary*

UNIVERSITY HEALTH SERVICE

Arthur Gage Hudson, M.D., *University Physician*

Florence Virginia Illing, G.N., B.S., M.A., *Director of Health Services*

Ona Walton, R.N., *Assistant Nurse*

THE UNIVERSITY BOOKSTORE

Margaret Humphreys Warno, *Manager*

THE DORMITORIES

Myrtle Lee, *Hostess, Mynders Hall*

Myra D. Test, *Assistant Hostess, Mynders Hall*

Doris Elizabeth Herzog, *Hostess, North Hall*

Mary Agnes St. John, *Hostess, Panhellenic Building*

Ila B. Freeman, *Hostess, Scates Hall*
Bobbie Pratt, *Assistant to the Hostess, Scates Hall*
Velma W. May, *Hostess, West Hall*
Anne Merrill Guest, *Assistant Hostess, West Hall*

THE UNIVERSITY POST OFFICE

Bernice Ruth Berryhill, *Postal Clerk*

THE UNIVERSITY TELEPHONE EXCHANGE

Olive Jeanette Swaim, *PBX Operator*

Part Two:

DESCRIPTION
OF THE
UNIVERSITY

HISTORICAL STATEMENT

I N 1909 the General Assembly of the State of Tennessee enacted a General Education Bill which provided for the establishment and maintenance of normal schools for the training of teachers, one such school to be located in each of the three grand divisions of the state. In generous support of this proposal, Memphis and Shelby County contributed \$350,000 and a site of approximately eighty acres near the eastern edge of the city. On September 15, 1912, West Tennessee State Normal School was formally opened.

During the intervening years the name, nature, and functions of this school have undergone numerous changes. In 1925 it became a senior college, and the name was changed to West Tennessee State Teachers College. In 1941 the liberal arts curriculum was considerably enlarged, and the name was changed to Memphis State College. In 1950 a graduate school was added, and the undergraduate program was reorganized into three schools: Arts and Sciences, Business Administration, and Education. On July 1, 1957, by action of the Tennessee State Legislature, the school was designated Memphis State University.

AIMS OF THE UNIVERSITY

Memphis State University has aimed in the past and continues in the present to offer an educational program compounded of those three elements traditionally associated with institutions of higher learning: teaching, research, and public service.

The primary purpose of the University is to provide experiences through which students may attain a high degree of intellectual maturity, social stability, and professional competence. Through the variety of courses offered by the various schools of the University it is hoped that the student's perspective will be so enlarged that the choices he makes in life will be cogent ones and that he will become a fully awakened and involved individual.

Research in many areas and on all levels is vital if our knowledge and comprehension are to be expanded. Because of the unexpected and invaluable results which have come from research undertaken without any immediate goal in view, the distinctions between pure research and applied research have become blurred. From the universities, the communities of scholars, each seeking truth in his own way, have come the most significant discoveries of our age. Memphis State University is constantly seeking to increase and improve its facilities in order to make available to its

faculty and students the time, tools, and atmosphere necessary for the kinds of research which the citizens of the area have every right to expect.

Teaching and research are in themselves, of course, part of the public service which the University offers; but, in addition to these, the faculty, staff, and students make other valuable contributions to the public good. Both the physical facilities and the talents of the personnel are now utilized in many ways, and the University is always receptive to suggestions as to how the services may be expanded in order to be of added value to the citizens of the metropolitan area, the state, and the surrounding region.

ACCREDITATION

Memphis State University is fully accredited by The Southern Association of Colleges and Secondary Schools, and is a member of The Association of American Colleges, The Tennessee College Association, The American Association of Colleges for Teacher Education, and the American Council on Education. The School of Education is accredited by the National Council for Accreditation of Teacher Education.

The honorary and professional societies maintaining chapters at the University are listed on page 65.

The American Association of University Women, of which the University is a corporate member, admits women graduates of Memphis State University to national membership.

GOVERNMENT

The government of Memphis State University is vested in the Tennessee State Board of Education; the Governor is an *ex officio* member of the board, and the Commissioner of Education is its chairman. The other nine members of the board are appointed by the Governor, three members from each of the three grand divisions of the State. Offices of the Board are located in the Cordell Hull Building, Nashville.

The chief administrative officer of the University is the President. He is assisted and advised by members of the administrative staff and the faculty organized into two official bodies, the Administrative Council and the Faculty Council. Each school and division of the University is administered by a director, each individual department by a chairman.

ORGANIZATION

Memphis State University comprises The School of Arts and Sciences, The School of Business Administration, The School of Education, The Department of Industrial Arts, and The Graduate School*. The regular program of the University is supplemented by The Evening Division, The Summer Session, and The Extension Division, the various offerings of which afford greatly increased opportunities for the people of this area to avail themselves of the facilities and services of the University.

PHYSICAL FACILITIES

ACADEMIC BUILDINGS

The Administration Building, the first academic building on the campus, was completed in 1912; it has been enlarged and remodeled several times and is completely air conditioned. It houses most of the administrative offices of the University and contains classroom and office space for several departments in The School of Arts and Sciences and The School of Education.

Manning Hall, built in 1930 and named in honor of the University's first instructor in science, Priestly Hartwell Manning, provides the departments of Biology, Chemistry, Physics, and Home Economics with classrooms, offices, laboratories, and a science auditorium.

Johnson Hall, completed in 1958, is named in honor of Dr. Rayburn W. Johnson, chairman of the Department of Geography, and his late wife, Ethel B. Johnson. Air-conditioned throughout, it contains classrooms, laboratories, offices, a map library, a conference room, and an auditorium for the departments of Geography, Political Science, Psychology, and Sociology and Anthropology. On the ground floor is the Ethel B. Johnson Reception Room, dedicated to the use of the Memphis State Dames Club.

Jones Hall, named in honor of Otis Henry Jones, University bursar from 1925 to 1937, was occupied in 1960. It is completely air-conditioned and provides classroom and office space for the departments of Air Science, Art, Classical Languages, Modern Languages (with an electronic language laboratory), and Philosophy. It also houses the University post office and the office of the coordinator of Veterans' Affairs.

*The Graduate School is not described in this catalog; requests for the Bulletin of The Graduate School should be addressed to the director of that school.

The School of Business Administration Building, completed in 1962, is a three-story, air-conditioned structure with an adjoining auditorium; it contains administrative offices, classrooms, laboratories, and offices for the departments of Accountancy, Economics, and Finance, Management, Marketing, and Secretarial Science and Office Management.

The Industrial Arts Building, built in 1941, and enlarged in 1946, and again in 1960, provides classrooms, offices, and extensive laboratory facilities for drafting, woodwork, metalwork, ceramics, photography, and general shop practices.

The University Training School, operated in cooperation with the Board of Education of the City of Memphis, provides facilities for training student teachers and opportunities for observing good teaching procedures. There are twenty-four classrooms, an auditorium, a library, and a cafeteria for an enrollment of about 700 in grades 1 through 6.

The Field House, built in 1951, contains a basketball court, a stage, and seats for 4000. In 1958 the building was enlarged to provide two practice gymnasiums, classrooms, and offices for the Department of Health and Physical Education and for the varsity coaching staff.

THE LIBRARY

The University library, named in honor of former President John Willard Brister, was built in 1927; it has since been considerably enlarged and the latest addition is scheduled for completion in October, 1962. The collection at present numbers over 150,000 volumes, including microfilm and microprint. Subscriptions and files are maintained for general and specialized periodicals.

DORMITORIES AND OTHER HOUSING

There are four residence halls for women, providing accommodations for 614 women students: *Mynders Hall*, *West Hall*, *Scates Hall*, and *Nellie Angel Smith Hall*.

There are three residence halls for men, providing accommodations for 412 men students: *Hayden Hall*, *North Hall*, and a new dormitory to be occupied in September, 1962.

Vets Village is a group of frame buildings containing 71 apartments; built after World War II to house veterans and their families, these units are now open to all married students, although veterans retain preference. Applications for occupancy should be made to the Dean of Men.

AUXILIARY BUILDINGS

The Old Gymnasium was in 1961 converted into studio and office space for WKNO-TV, the educational television station operated by the Memphis Community Television Foundation.

The Cafeteria, with a seating capacity of 500, adjoins *The Student Center*, which contains a soda fountain, two snack bars, and facilities for group meetings, games, and dancing.

The Panhellenic Building, erected in 1959 by the national sororities with chapters on the campus, affords suites for eight sororities and a hostess, guest room, kitchen, and ballroom.

The University Auditorium, located in the Administration Building, seats 1200 and has a stage fully equipped for dramatic and musical productions.

CHUCALISSA INDIAN VILLAGE AND MUSEUM

Chucalissa, prehistoric Indian town and museum, situated in the southwest corner of Shelby County on Mitchell Road, is operated by the University as a research and training facility. Excavation of the site is being undertaken, with students performing the archaeological field work under staff supervision. Adjoining acreage serves as a biological field station. Chucalissa also provides indoor and outdoor archaeological exhibits, open to the public throughout the year.

Part Three:

ADMISSION
TO THE
UNIVERSITY

ADMISSION TO THE UNIVERSITY

INQUIRIES about admission to any school of the University should be addressed to the Dean of Admissions. The admissions office receives and processes all applications, evaluates credentials, and issues cards of admission to qualified applicants. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

ADMISSION OF FRESHMEN

An applicant for admission as a freshman may qualify under any one of six plans:

1. By a transcript of credits showing graduation from an approved or accredited high school based on the completion of a four-year course of study. Students who do not present one unit of American history are required by Tennessee law to enroll for the course upon initial enrollment.
2. By High School Equivalency Diploma. Veterans and non-veterans over 21 years of age may be admitted by the equivalency diploma, provided it is issued upon a minimum average GED test score of 50, with no single score below 35.
3. By General Education Development tests. Veterans who are not high school graduates and who have at least 12 months of service may be admitted conditionally by GED test scores averaging 45 or more, with no single score below 35.
4. By certificate and examination. An applicant from an unapproved high school who presents a satisfactory certificate will be required to take examinations only in subjects covering four units of high school work taken in the senior year.
5. By examination. An applicant who does not present a satisfactory certificate may be admitted by passing examinations on sixteen units required for graduation in an approved high school.
6. Young men and women who are 21 years of age and over, and who have not completed four years of high school work, may be admitted and permitted to take courses for which they are prepared, provided that they satisfy all entrance requirements before becoming degree candidates. Such students should, if possible, qualify for the high school equivalency diploma.

ADMISSION OF TRANSFER STUDENTS

Admission with advanced standing will be granted to a student who has honorable dismissal from an accredited institution and whose cumulative quality point average meets the following minimum standards, on a scale in which a grade of A gives 4 quality points:

- With two semesters in residence: a quality point average of 1.5000
- With four semesters in residence: a quality point average of 1.8000
- With six semesters in residence: a quality point average of 1.9000
- With more than six semesters in residence: a quality point average of 2.0000.

A transfer student who has failed his work at another institution and is not entitled to continue there will not be admitted to the University except under unusual circumstances. A transfer student failing to meet the above entrance requirements may be refused admission, or may be admitted on scholastic probation, or on any other condition that may seem advisable. A transfer student who meets these qualifications, but whose average for the last term in residence is less than 1.5000, will be entered on scholastic probation. The probation must be removed within the first semester of residence.

Credits will be accepted only for courses which are equivalent to those offered at Memphis State University toward a degree. The Dean of Admissions will evaluate the transcript of each transfer student to show the credits acceptable to the University. The director of the school to which the student is admitted will inform the student the extent to which his credits will apply toward the degree sought.

All credits are transferred at their original grade; if the quality point average on such transferred credits is less than C, the cumulative quality point average must be brought up to a C by higher grades at Memphis State University before the student can qualify for graduation. (See page 71 for the method of computing quality point averages.) Every student must qualify for graduation on the basis of every course attempted, here and elsewhere. In no case may transferred grades be used to raise the student's quality point average on courses taken at Memphis State University; his average on all such courses must be C (2.0000).

A student submitting advanced standing from an unaccredited institution will be given consideration. Each case will be considered individually, and credit may be accepted tentatively. In no case will credit be recorded until it has been validated by satisfactory work at this university for one or more semesters.

Advanced standing of not more than 72 semester hours will be accepted from a junior college. Credit earned at a junior college after a student has completed 72 semester hours of college work from any source will not be accepted.

Transfer credit from vocational schools or vocational colleges not accredited by the Tennessee State Board of Education and/or The Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will not be accepted toward a degree or toward teacher certification.

A student who has attended any accredited or approved institution of higher learning will not be permitted to enroll as a beginning freshman.

PROCEDURES FOR ADMISSION

1. *Application.* A written application on a form supplied by the University is required. The Application for Admission form, which includes instructions for completing arrangements for entrance, must be secured from the office of the Dean of Admissions, completed in ink or by typewriter, and returned to the admissions office.

2. *Deposit.* Each applicant will make a deposit of ten dollars (\$10.00) which must accompany the completed application form. *It is never refunded.* If the previous school record and examination scores are satisfactory, the deposit will apply on payment of fees for the semester for which application is made.

3. *Credentials.* A student entering directly from high school should request his principal to mail to the Dean of Admissions an official transcript of his high school work. A student entering from another college or other colleges should request the registrar of each college attended to mail to the Dean of Admissions an official transcript of his college work. *In every case credentials must include a complete record of all previous secondary schools and all collegiate institutions attended, regardless of credit earned, and regardless of whether or not credit is desired.* To prevent delay in completing registration, all credentials, including the completed application form and the official transcript, should be on file in the office of the Dean of Admissions at Memphis State University before the beginning of the term for which application is made. All transcripts become the property of the University and can not be returned.

4. *Age.* An applicant must be at least 16 years of age.

5. *Character.* The applicant must submit evidence of good moral character (usually the recommendation of the high school principal). All applicants must have honorable dismissal from the last high school or college attended, and it is expected that all high school graduates will be recommended by the principal.

6. *Entrance Examination.* All applicants for admission to Memphis State University must take the University entrance examination, or an equivalent examination administered by the College Entrance Examination Board or the American College

Testing Program at designated centers; applicants are encouraged to take examinations through these agencies. Students who take either of the latter examinations should request that their test scores be sent to the office of the Dean of Admissions. If the test results are satisfactory, the student will be exempt from the University entrance examination; if not, he will be required to come to this campus for the University examination.

7. *Health Card.* Each student is required, as a condition of admission, to file with the Dean of Admissions a medical history and report of physical examination on the Health Service Record Card provided by the University. Each candidate must be free from communicable disease; must show evidence of vaccination for smallpox within the past five years; and must show a satisfactory chest x-ray or tuberculin skin test within the past six months.

FORMER STUDENTS

Former students who wish to return to the University must file a formal application for readmission; application forms, available from the office of the Dean of Admissions, must be completed in ink or by typewriter and returned to the Dean of Admissions. If the student has enrolled at another college since last attending Memphis State University, he must have a transcript from the other college submitted and approved before he may re-enter.

CREDIT FOR SERVICE IN THE ARMED FORCES

Veterans who have completed one year or more of full-time, extended active military service will be excused from taking the required physical education activity courses and, in addition, will be allowed six semester hours (less credit already earned) of health and physical education credit upon presentation of a copy of their discharge form (DD Form 214) to the office of the Dean of Admissions. Reservists who have served six months active duty under the provisions of the Reserve Forces Act of 1955 are not considered veterans; they may, however, be excused from taking the required physical education activity courses upon the presentation of a copy of their discharge form (DD Form 214) to the chairman of the Department of Health and Physical Education.

Part Four.

GENERAL
INFORMATION

FEES AND FINANCIAL REGULATIONS

(The following regulations apply to undergraduate students only; for tuition and fees for graduate students see the Bulletin of The Graduate School.)

Tuition. Tuition is free for students who are residents of Tennessee; non-resident students are charged \$82.50 per semester.

Registration Fee. A single composite registration fee of \$82.50 per semester is charged for all full-time students who are residents of Tennessee; non-residents are charged \$165.00 (including the tuition fee). This fee covers registration, student activities, and instructional charges.

Part-Time and Off-Campus Students: Fees for part-time students and for students enrolled in classes which meet off the campus are as follows:

Undergraduates, residents of Tennessee: \$7.50 per semester hour
Undergraduates, non-residents of Tennessee: \$15.00 per semester hour

Graduates, residents of Tennessee: \$9.00 per semester hour

Graduates, non-residents of Tennessee: \$18.00 per semester hour

The Summer Session

Undergraduates, residents of Tennessee: \$7.50 per semester hour, or \$55.00 for the complete two-term session

Undergraduates, non-residents of Tennessee: \$15.00 per semester hour, or \$110.00 for the complete two-term session.

NOTE: The student must indicate his choice of payment plan at the time of his initial summer session registration. He may not shift from one plan to the other after his initial registration. The \$55.00 fee entitles him to register for a maximum of 14 semester hours in two terms. *No part of this fee is returnable* (unless the student withdraws within the period during which refunds are allowed); that is, if the student registers for less than the maximum number of hours, or if he attends for only one term, no part of the \$55.00 payment will be refunded. If he wishes to register for only one term or for less than 8 semester hours for two terms, it will, of course, be to his advantage to pay at the rate of \$7.50 per semester hour.

Fees for Private Lessons in Music. Music 050, 051, 052, 054, 056, 151, 152, 154, 156, 302, 303, 305, 306, 350, 351, 353, 356, 405, 406 have the following fees:

One thirty-minute lesson weekly, per semester.....\$ 33.75

Two thirty-minute lessons weekly, per semester..... 67.50

Music 059, 159, and 359 have the following fees:

One thirty-minute lesson weekly, per semester..... 60.00

Two thirty-minute lessons weekly, per semester..... 120.00

Room Rent. Room rent for Mynders Hall, West Hall, and Nellie Angel Smith Hall for women and North Hall and the new dormitory for men is \$90.00 per semester. Room rent for Scates Hall for women and Hayden Hall for men is \$67.50 per semester. Room rent for the summer session is \$5.00 per week in all dormitories.

An application for a dormitory room must be accompanied by a check or money order for \$25.00 which will apply to the semester's rent upon presentation of the room receipt. The total deposit is refundable, upon presentation of the receipt, up to July 1st for a room reserved for the fall term; after that date and prior to September 1 only \$10.00 of the deposit will be refunded. Cancellation for the spring and summer terms must be made not later than 15 days before the first day of registration for the term for which the reservation has been made.

A key deposit of \$1.00 is required of each student living in a women's dormitory and is refunded upon return of the key. A deposit of \$15.00 is required of each student living in a men's dormitory.

Students are responsible for damage to or breakage of dormitory property.

(For further information concerning dormitory accommodations, see pages 45 and 56.)

Cafeteria. The cafeteria is open to all students. The approximate cost of meals per day is \$2.00.

Late Registration Fee. Registration should be completed within the official registration period announced in the catalog and the Schedule of Classes. Registration is not complete until all fees for the semester have been paid. For registration after the end of the official period, an extra fee of \$1.00 each day is charged. Students who delay more than thirty days in completing their registration will not be allowed to register the following semester.

Fee for Late Examination. The student must pay a fee of \$1.00 for each final examination taken late. A receipt from the office of the Business Manager will admit the student to any late examination that he is entitled to take. The receipt must be forwarded to the Records Office by the instructor along with the final grade as a requisite for the recording of the final grade of the course. Students are allowed to take late or special examinations only with the approval of the director of the school concerned and after the payment of the late examination fee.

Transcript Fee. One transcript of the student's academic record at Memphis State University is furnished free. For each additional transcript, a fee of \$1.00 is charged. Transcripts are issued only at the request of the student or his authorized agent.

Diploma Fee. Degree candidates pay a fee of \$15.00, which includes the fee for the diploma, the rental of cap and gown, and other incidentals connected with commencement exercises. This fee is payable in the office of the Business Manager thirty days before graduation.

Breakage Cards. Students enrolled in classes in chemistry and physics are required to purchase breakage cards. Any unused balance is refunded at the close of the semester.

Book Handling Charge. The University Bookstore charges a ten per cent handling fee on each book returned.

Payment and Refund of Fees.

1. All fees are payable in advance.
2. If a student withdraws from the University within seven days after the beginning of classes for the semester, a refund will be made of 80% of fees; each week thereafter, the amount will be reduced 20%.
3. The diploma fee is not refunded.
4. Rooms are rented by the semester in advance; no reduction is made for late registration or for an absence of less than two weeks.
5. No student may enroll, graduate, or receive a transcript of his record until all accounts are settled. The term "account" includes any indebtedness to the University.

DORMITORY REGULATIONS

Students entering Memphis State University and wishing to live in the dormitories should make their applications at the earliest possible date. Reservations for the women's dormitories are made with the Dean of Women, for the men's dormitories with the Dean of Men; application forms are available in the offices of the deans.

An application for a dormitory room must be accompanied by a check or money order for \$25.00 which will apply to the semester's rent upon presentation of the room receipt. The total deposit is refundable, upon presentation of the receipt, up to July 1 for a room reserved for the fall term; after that date, and prior to September 1, only \$10.00 of the deposit will be refunded. Cancellation for the spring and summer terms must be made not later than 15

days before the first day of registration for the term for which the reservation has been made.

Students living in the dormitories during the spring semester and wishing to retain rooms for the fall semester of the next academic year should make reservations early in the spring.

Women students not living at home are expected to live in the women's residence halls when space is available. Any exceptions to this policy may be granted only by the Dean of Women.

After registration, married students are eligible to apply to the Dean of Men for apartments in Vets Village. Preference in the assignment of space is given to veterans.

STUDENT CONDUCT

It is assumed that applicants for admission to Memphis State University are ladies and gentlemen, and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. Whenever any number of people live together, each must forfeit some individual privileges for the general good. The rules and regulations at Memphis State University are of such nature as to secure ready conformity and also sympathy and cooperation on the part of students in making them effective. These rules and regulations are outlined in the Student Handbook, distributed to all students at the time of initial registration; each student is expected to keep this handbook and use it as a guide during his residence at Memphis State University.

AUTOMOBILES ON THE CAMPUS

Each person who expects to operate and park an automobile on the campus of Memphis State University must register it in the office of the Dean of Men and receive an official permit. Permits cost \$2.00 per year (September through August). Limited parking space necessitates close regulation of traffic. Each student is responsible for acquainting himself with campus traffic and parking regulations, copies of which are available in the office of the Dean of Men.

AIDS AND AWARDS TO STUDENTS

Unless otherwise indicated below, all applications for scholarships and loans should be made to the chairman of the University Committee on Scholarships and Loans.

Scholarships

THE ADVERTISING CLUB OF MEMPHIS annually awards a scholarship of \$250.00 to the outstanding junior or senior student majoring in advertising. Applications are to be submitted by April 1 to the chairman of the Department of Marketing.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, MEMPHIS BRANCH, awards a \$200 scholarship to a woman for graduate study. In making the award the following points are considered: (1) the scholarship record of the applicant for the semester preceding January 25; (2) the need for financial assistance; and (3) general acceptability. Applications are to be submitted by May 1 to the AAUW Scholarship Committee through the Dean of Women.

THE MEMPHIS CHAPTER OF AMERICAN SAFETY ENGINEERS provides a fund of \$375 annually for men interested in the industrial technology major. This fund is divided into two equal amounts of \$187.50 each, and awards are made to seniors majoring in industrial technology.

THE GEO. T. BRODNAX, INC., SCHOLARSHIP AND RETAIL EXECUTIVE DEVELOPMENT PROGRAM is offered to students majoring in retailing or marketing. Applicants must have completed the first semester of the sophomore year and have a scholastic average of 2.5. The scholarship consists of two \$375 grants; in addition, the selected students will work on a part-time basis for the school year with the George T. Brodnax firm. Applications are to be submitted by March 15 to the chairman of the Department of Marketing.

THE BURK JOURNALISM AWARD is offered annually to the freshman journalism major who has been judged most outstanding in academic performance and professional promise. The award, providing \$175 for tuition expenses during the winner's sophomore year, is donated by Bill E. Burk, a professional journalist and an alumnus of the Department of Journalism (Class of 1957) at Memphis State University.

THE MEMPHIS CONTROL, CONTROLLERS INSTITUTE OF AMERICA SCHOLARSHIP of \$250 is awarded annually to a second-semester junior student, majoring in industrial accounting with an interest in becoming a controller. The recipient must have scholastic ability with better than average grades. Applications will be submitted by the director of The School of Business Administration and the chairman of the Department of Accountancy to the Memphis Control Scholarship Committee.

THE COTERIE, an organization of women interested in the arts and philanthropies in the arts, provides scholarships to enable young women to continue their studies in the fine arts. Funds for the scholarships come from the Coterie's participation in the activities of the Memphis Shakespeare Festival, Inc.

THE DEPARTMENT OF GEOGRAPHY offers scholarships ranging from \$100 to \$300 annually to outstanding students desiring to work in geography. Scholarships are open to freshmen who finished in the upper 20% of their graduating class. Applications are to be submitted to the chairman of the Department of Geography.

THE JOSEPHINE CIRCLE SCHOLARSHIP is awarded annually to a beginning freshman. The award is made on the basis of scholastic record, personality, future plans of the applicant, and need.

THE ESTES KEFAUVER SCHOLARSHIP, awarded by The Tennessee Foundation (General Shoe Corporation), consists of two \$250 awards for two semesters. Applicants must be residents of Memphis or the surrounding area, majoring in history. Applications are to be submitted to the chairman of the Department of History.

THE P. H. MANNING SCHOLARSHIP FUND was established by the late Professor P. H. Manning, who left the bulk of his estate to be used by the State Board of Education to provide scholarships for young men students meeting certain conditions set forth in his will. The scholarships of \$100 each are given to young men from Carroll, Decatur, Gibson, and Henderson counties.

THE MEMPHIS CHAPTER OF THE NATIONAL ASSOCIATION OF ACCOUNTANTS annually awards a scholarship of \$100 to an outstanding accounting major selected by the faculty of the Department of Accountancy. A scholarship key is presented to the recipient.

THE PERSONAL LOAN AND FINANCE SCHOLARSHIP of \$250 for two semesters is awarded annually to a freshman majoring in The School of Business Administration. Applicants must have a good academic average and some financial need.

THE SERTOMA CLUB—ROBERT TALLEY JOURNALISM SCHOLARSHIP was established to honor a long-time member of the editorial staff of the Memphis *Commercial Appeal*. Each year the Sertoma Club of Memphis awards a scholarship valued up to \$350 to an advanced journalism student who has done outstanding work at Memphis State University. Applications are to be submitted to the director of The School of Arts and Sciences.

THE SARAH ANN SMITH AWARD, established in honor of Sarah Ann Smith by the Alpha Xi Delta Sorority, provides an annual scholarship of \$50 to the most outstanding junior woman majoring in mathematics.

THE SOUTHERN BOILER AND TANKS WORKS SCHOLARSHIP consists of two awards of \$250 per year for two years for pre-engineering freshmen and sophomore students.

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS awards annually ten scholarships of \$250 each to accounting majors with good academic averages enrolled in qualifying Tennessee colleges. The scholarships are awarded on a competitive basis to the top ten applicants in relation to scholarship, extra-curricular activity, character, and financial need. Applications are to be submitted to the chairman of the Department of Accountancy.

UNIVERSITY SCHOLARSHIPS. Memphis State University awards annually approximately 190 scholarships to students who have exceptionally good academic records and are residents of the State of Tennessee. These scholarships pay the \$165 annual registration fees required of residents of Tennessee.

Loan Funds

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN LOAN FUND of \$200, administered by the Memphis branch of the AAUW, is available to women students recommended by the University.

THE AULL LOAN FUND of \$250, contributed by Mrs. Genevieve Aull, is to be used for loans to members of the senior class who have dem-

onstrated their scholastic eligibility by one or more years of satisfactory work in residence.

THE ERNEST C. BALL LOAN FUND of \$280.36 is available for loans to eligible students.

THE JOHN WILLARD BRISTER LOAN FUND. On the occasion of the twenty-first birthday celebration of the University, the members of the faculty presented a fund of \$150 to be named in honor of the late President John Willard Brister.

THE CLASS OF 1933 LOAN FUND of \$102 was donated by the Class of 1933 as a class memorial.

DAUGHTERS OF THE AMERICAN REVOLUTION, FORT ASSUMPTION CHAPTER OF MEMPHIS, LOAN FUND of \$500 is available for loans to eligible students.

THE OWEN ROGERS HUGHES MEMORIAL LOAN FUND of \$100 is available for loans to eligible students.

THE DR. JENNINGS B. GEORGE LOAN FUND of \$1000 was established in honor of Dr. Jennings B. George.

THE KAPPA LAMBDA SIGMA AND PHI LAMBDA DELTA LOAN FUND of \$206 was presented by the Kappa Lambda Sigma sorority and the Phi Lambda Delta fraternity in memory of those members of Phi Lambda Delta who lost their lives in World War II.

THE MARION CIRCLE LOAN FUND of \$100 is available for loans to eligible students.

THE FEDERAL STUDENT LOAN FUND. The National Defense Education Act of 1958 makes available to the University money for loans to superior students; students may borrow as much as \$1,000 each year. The loan bears no interest until one year after the student graduates (and then only three per cent) and may be repaid over a ten-year period. If the graduate teaches, ten per cent of the loan will be cancelled for each year taught for the first five years; thus, one-half of the total amount borrowed will be cancelled after five years of teaching.

THE QUOTA CLUB LOAN FUND, administered by the Quota Club of Memphis, makes funds available to women students of junior or senior rank. Applications are to be submitted to Mrs. Ellen Davies Rodgers, chairman of the Education Committee of the Memphis Quota Club.

THE SHELBY COUNTY PARENT-TEACHER ASSOCIATION LOAN FUND of \$602.38 is available in varying amounts to eligible students.

THE UNITED STATES DAUGHTERS OF 1812 LOAN FUND of \$650, donated by the Old Hickory Chapter, USD of 1812, Memphis, consists of three awards: (1) the Mary Robinson Day Memorial Scholarship of \$250; (2) the Martha Moore Allen Scholarship of \$250; and (3) the Willis Hitzing Scholarship of \$125. All three of these awards are loan funds and may be awarded to a man or woman on recommendation of the faculty.

THE UNIVERSITY LOAN FUND is a revolving fund from which the University makes loans in varying amounts to eligible students.

THE ZONTA CLUB OF MEMPHIS LOAN FUND of \$250 is available to eligible junior and senior women. Applications are to be made through the

Dean of Women who will submit the names to a committee of the Zonta Club for approval and selection.

Awards

THE COLLEGIATE CHAPTER OF THE AMERICAN MARKETING ASSOCIATION each year makes an award of a plaque to the outstanding senior majoring in marketing.

THE MEMPHIS CHAPTER OF ARCHITECTURAL WOODWORKERS offers cooperative employment opportunities for senior students majoring in drafting and design and in construction technology.

THE CHEMICAL RUBBER PUBLISHING COMPANY annually awards the *Handbook of Chemistry and Physics* to two freshman students selected by the faculties in chemistry and physics as outstanding in these fields of study.

THE PHI CHAPTER OF CHI BETA PHI, national honorary scientific fraternity, annually awards a plaque to the student who has attained the highest average grades during his four years of study in each of the disciplines of biology, chemistry, mathematics, and physics.

THE CITY PANHELLENIC ASSOCIATION makes an annual award to the sorority woman in the graduating class with the highest average.

DELTA SIGMA PI, the international business fraternity, annually awards a scholarship key to the man in The School of Business Administration graduating with the highest scholastic average in business subjects.

THE GOOCH FOUNDATION makes an annual award to the freshman holder of a Gooch Scholarship who has the highest scholastic average for the year.

PHI GAMMA NU, the professional sorority in business, each year presents a scholarship key to the woman business graduate who has maintained the highest scholastic average in The School of Business Administration.

THE SIMON AND GWYNN MARKETING AWARD is given annually to a senior majoring in marketing for the best treatise on a selected subject on advertising or marketing. The award consists of \$100 and a trophy.

THE SMEAD AWARD is presented to the outstanding graduate in the field of business education who is planning a career of teaching.

THE MEMPHIS CHAPTER OF THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS presents a plaque each year to the graduating student who has the highest overall scholastic average among all accountancy majors.

THE WALL STREET JOURNAL annually awards a plaque and a year's subscription to the *Journal* to the most outstanding graduate in the fields of management or finance.

THE WOMEN'S ASSOCIATION of the University offers an award annually to the woman member of the senior class who, having done all her work at Memphis State University, shows the highest scholastic attainment.

STUDENT SERVICES AND ACTIVITIES

(All student services are coordinated through the office of the Dean of Students.)

Health Service

Services of a physician and registered nurses are provided for minor treatment and consultation in the University Health Center,

located on the first floor of the Administration Building. The student is financially responsible for hospitalization or medical care beyond that offered by the Health Service. Arrangements for medical care of resident students should be made in consultation with the Health Center staff; parents of resident students will be notified when additional medical services are necessary.

Special sickness and accident insurance policies for students are available; they are particularly valuable to those students whose coverage under family policies has terminated. Policies are issued by a private agency, authorized and approved by the University; details are available at the time of registration.

Bookstore

The University Bookstore, located on the first floor of the Administration Building, is stocked with textbooks and supplies required or recommended for every course offered in the University.

Post Office

The University Post Office is located on the first floor of Jones Hall. Each dormitory student is expected to rent a mailbox to facilitate the handling of his mail, which should be addressed to him at Memphis State University Station, Memphis 11, Tennessee.

Placement Services

The Office of Alumni Placement, located in Room 3-C (third floor) of the Administration Building, arranges interviews between graduating students and prospective employers and maintains an active file of employment opportunities for alumni who wish to change positions or advance in their fields.

Teacher placement, because of its specialized nature, is handled in a separate Office of Teacher Placement, located in Room 260, Administration Building.

Part-time employment for undergraduate students is handled through a branch office of the Tennessee Department of Employment Security, located in the office of the Dean of Men, Room 209, Administration Building. In cooperation with employers throughout the metropolitan area of Memphis, this office attempts to place students in part-time work that is in keeping with their ultimate employment goals. Part-time employment for freshmen is discouraged.

Athletics

The University sponsors a two-phase athletic program, intramural and intercollegiate. The intramural program is under the

supervision of the Department of Health and Physical Education. Policies for intercollegiate athletics are set by the University Committee on Athletics.

The intramural program operates throughout the year and provides students with opportunities to compete in seasonal sports either as individuals or as members of teams from the various student organizations. Individual recreation is offered in tennis, shuffleboard, badminton, table tennis, archery, and handball. Team participation is offered in softball, touchball, basketball, volleyball, and track. Recreational equipment may be borrowed from the athletic supply room.

The intercollegiate program sponsors teams in football, basketball, baseball, track, golf, and tennis. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State.

Athletic facilities on the campus include two gymnasiums, five all-weather tennis courts, six handball courts, a football field, a quarter-mile running track, baseball and softball fields.

The Department of Health and Physical Education is closely associated with both the intramural and intercollegiate programs. All coaches serve as instructors in this department, and students utilize the two programs and facilities in preparation for careers in the fields of health and physical education.

Alumni Association

The Memphis State University Alumni Association, with offices in Room 3-C (third floor) of the Administration Building, maintains active contact with graduates for the mutual benefit of alumni and the University. Annual meetings of the association are held on the campus each autumn as an important feature of the Homecoming Weekend.

Veterans' Program

Veterans entering the University for the first time and desiring to take advantage of veterans' benefits must apply to the Veterans' Administration, 801 Broadway, Nashville 3, Tennessee, for a Certificate for Education and Training. Korean veterans are responsible for payment of their University fees.

All veterans, after registration, must file schedules of their classes with the Coordinator of Veterans' Affairs, whose office is in the Student Center. Inquiries about the veterans' program should be addressed to that office.

Extra-Curricular Activities

A variety of extra-curricular activities under competent supervision and direction are included in the University's program, and furnish valuable experience and training for the students. Participation in extra-curricular activities is a privilege extended only to students who maintain a satisfactory scholastic average and who meet the particular requirements of the various organizations. Invitations to membership, when required, are extended by the individual organizations.

No attempt is made in the following section to present an exhaustive or detailed account of all organizations and their activities. Full information is provided in the Student Handbook, distributed to all students at the time of registration. Copies are available in the offices of the Dean of Students, the Dean of Men, and the Dean of Women.

STUDENT GOVERNMENT. The Student Government Association is composed of officers, a legislature, and a judiciary elected annually by the student body. It exercises responsibility in those areas of student life delegated to it by the University and represents student opinion in working with the administration toward the good of the University.

PUBLICATIONS. Students write and edit *The Tiger Rag*, the weekly newspaper; *The DeSoto*, the University yearbook; and *The Phoenix*, the literary magazine.

ART. The Department of Art sponsors exhibitions of art works throughout the year. The galleries in Jones Hall and in the library display the work of national and local talent in addition to faculty shows and the annual student exhibit. Lectures and films on art are also a part of the department's yearly program.

MUSIC. Qualified students, whatever their majors, may participate in the numerous musical groups organized and directed by the Department of Music, including the University Symphony Orchestra, the Music Education Orchestra, the University Bands (marching, concert, and stage), and a variety of choral groups. In addition to offering concerts and recitals throughout the year, the Department of Music presents annually a major oratorio and a grand opera, the latter in cooperation with the Department of Speech and Drama. Copies of programs for the musical events of the 1961-62 season will be mailed upon request; letters should be addressed to the chairman of the Department of Music.

SPEECH AND DRAMA. Qualified students, whatever their majors, are invited to audition for roles in the plays produced each year by the Department of Speech and Drama and in the Shakespearean play produced annually by the Memphis Shakespeare Festival, Inc., to which the University plays host. In addition to its major productions, the Department of Speech and Drama sponsors the Lunch Box Theatre, a student-organized and operated experimental theatre; the Readers Theatre, designed to present concert readings and programs of oral interpretation; and the Forensics Association, affording students opportunities to participate in debate, extemporaneous speaking, oratory, after-dinner speaking, and discussions.

From this latter group are chosen those students who represent the University in its extensive intercollegiate forensics program.

THE GOODWYN INSTITUTE LECTURES. The Goodwyn Institute, founded and endowed by William A. Goodwyn, philanthropist and former citizen of Memphis, provides a series of free lectures and addresses covering a wide variety of subjects. The aim of the Institute is to offer to the citizens of Memphis and the students of the University authoritative and accurate information upon all kinds of practical and cultural subjects. Public forums frequently follow the lectures, all of which are held in the University auditorium. Admission is free, and reserved seat tickets may be obtained in the office of the Director of the Goodwyn Institute or in the office of the Dean of Men.

RELIGIOUS ACTIVITIES. Religious life on the campus is under the direction of a standing committee of the faculty and a student religious council functioning in cooperation with the Student Government Association. The major religious bodies maintain meeting facilities adjacent to the campus, each supervised by its own staff; they provide activities adapted to the needs of the University community and designed to aid in the continuing religious growth and development of faculty and students. The organized religious groups include the Baptist Student Union, Canterbury Club, Chi Alpha, Christian Science Club, Disciples Student Fellowship, Hillel Foundation, Koinonia Club, Newman Club, Wesley Foundation, Westminster Fellowship, and Wittenberg Society. Each year the Religious Activities Committee of the faculty and the Student Religious Council sponsor a Religious Emphasis Week, during which outstanding leaders of all denominations are brought to the campus for student assemblies, lectures and seminars.

SCHOLARSHIP, LEADERSHIP, AND PROFESSIONAL ORGANIZATIONS. Many national honorary societies, devoted to encouraging high standards of scholarship, leadership, and professional competence, maintain active chapters on the campus. In addition, most departments and subject-matter areas sponsor local clubs to provide majors and other interested students with experiences and activities not always available in the class room. Organizations petitioning for membership in a national society maintain all standards required for affiliates. Local organizations operate under charters issued by the Student Government Association; revocation of a charter entails loss of University recognition and sanction. Detailed information concerning the following organizations, including requirements for membership, purposes, and specific activities, will be found in the Student Handbook and from sponsoring departments. Meetings are announced on bulletin boards and in *The Tiger Rag*.

Accounting Club	Biology Club
Alpha Lambda Delta (freshman women)	Chi Beta Phi (science)
Alpha Psi Omega (drama)	Delta Kappa (men)
American Chemical Society (student section)	Delta Sigma Pi (commerce)
American Institute of Physics (student section)	<i>Deutscher Verein</i> (German)
American Marketing Association	<i>En Garde!</i> (fencing)
Arnold Air Society	Forensics Club
Art Club	Home Economics Club
	Inservo (industrial arts)
	<i>La Rive Gauche</i> (French)
	Liberal Arts Honor Society

Mathematics Club	Pre-Law Club
Modern Dance Club	Psi Chi (psychology)
Orchesis (dance)	Psychology Club
Phi Alpha Theta (history)	Sigma Alpha Chi (military services)
Phi Delta Kappa (men in education)	Sigma Alpha Iota (women in music)
Phi Gamma Nu (women in business administration)	Sigma Delta Pi (Spanish)
Philosophy Club	Social Sciences Club
Phi Mu Alpha Sinfonia (men in music)	Society for Advancement of Management
Physical Education Club	Sock and Buskin
Pi Delta Epsilon (journalism)	Student National Education Association
Pi Sigma Epsilon (sales)	Tassel (women)
Pre-Engineering Club	Trampoline Club

SOCIAL FRATERNITIES AND SORORITIES. Nine national fraternities maintain chapters at the University: Acacia Club, Alpha Epsilon Pi, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Chi, and Sigma Phi Epsilon. Most of them own houses off the campus and offer limited rooming facilities to upperclassmen. Student supervision and coordination of their activities are provided through the Interfraternity Council.

Nine national sororities maintain chapters at the University: Alpha Delta Pi, Alpha Gamma Delta, Alpha Xi Delta, Delta Zeta, Gamma Phi Beta, Phi Mu, Pi Beta Phi, Sigma Delta Tau, and Sigma Kappa. Most of them have suites in the Panhellenic building. Student supervision and coordination of their activities are provided through the Panhellenic Council.

University supervision of fraternity and sorority activities is provided through the offices of the Dean of Students, and the Dean of Women.

Part Five:

ACADEMIC
REGULATIONS

THE ACADEMIC YEAR

THE academic year begins in September and covers a period of forty-eight weeks divided into two semesters and a summer session. Each semester is approximately eighteen weeks in length, and The Summer Session is divided into two terms of from five to six weeks each. Students may enter at the beginning of either of the regular semesters or at the beginning of either of the two terms of The Summer Session.

ORIENTATION, COUNSELING, AND REGISTRATION

An orientation program for all new undergraduate students is held on the days preceding registration as outlined in the University Calendar (page 5). During these orientation sessions, members of the administration and faculty introduce the new students to various programs of study, general University regulations, and basic registration procedures. Students are assigned to faculty advisers in the field of their major interest who aid them in selecting the appropriate courses. Throughout his residence at the University, each student has the assistance of his faculty adviser in all scholastic matters. *This assistance, however, does not relieve the student of the responsibility of studying the catalog himself and fulfilling all of the requirements therein for his particular goal.* It is expected that a student who has attained senior standing will consult with the director of his school in regard to the fulfilling of the requirements for his chosen degree.

The Schedule of Classes, published a few weeks before the beginning of each semester and available from the office of the Dean of Admissions, contains a detailed outline of the registration procedure. Students are urged to study these schedules carefully and to keep them available for immediate reference during the registration period and throughout the semester. All students are expected to register on the dates indicated in the Calendar; although registration is permitted after these dates, a late registration fee is charged and there is no reduction in other fees. Students who delay more than thirty days in completing their registration will not be allowed to register the following semester. Only those students who enter during the first week of a semester are allowed to enroll for a full schedule of semester hours credit; late entrants are required to limit their loads. In no case is credit allowed in any course for which the student is not duly registered; and all courses for which the student is registered are recorded as passed (with a letter grade), failed, incomplete, withdrew passing, withdrew failing, or dropped.

No student will be granted credit for a course which is not properly entered on his official registration card. Registration is not complete until all fees for the semester have been paid.

CLASSIFICATION OF STUDENTS

Students having 25 semester hours of credit and two semesters of residence are classified as sophomores; students having 55 semester hours of credit and four semesters of residence are classified as juniors; students having 85 semester hours of credit and six semesters of residence are classified as seniors.

Special students. Only those students who hold baccalaureate degrees and who are registered in courses for undergraduate credit may be classified as special students. All others, whether full or part-time, are classified as freshmen, sophomores, juniors, seniors, or graduate students.

Students who have completed the required number of hours and the required residence to be classified as juniors but who have not completed their basic requirements in the Lower Division must schedule these uncompleted requirements during the first semester following in which such courses are available.

CREDIT HOURS AND MAXIMUM LOAD

The unit of credit at Memphis State University is the semester hour; a semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two hours per week of laboratory work for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week; or for two lecture or recitation hours and two laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum number of semester hours per semester for classification as a full-time student is twelve. The maximum number of semester hours for a student with less than a B average (3.0) is eighteen (not including the required physical education activity course). A student who has a B average for a semester may, with the permission of the director of his school, schedule a maximum of twenty-one hours for the following semester.

For each term of The Summer Session, four semester hours is the minimum load for classification as a full-time student; six semester hours is the average load; seven semester hours is the maximum. No student may schedule more than a total of fourteen semester hours in the two terms of The Summer Session.

Only those students who enter during the first week of a semester are allowed to take a full schedule of semester hours credit; late entrants are required to limit their load.

Students who are working to support themselves should reduce their academic load. Counting two hours preparation for each credit hour, they should not schedule more than an eight-hour working day for their combined academic and business duties.

GRADES AND QUALITY POINTS

Grades. At the end of each semester or summer term, instructors report to the Records Office the standing of all students in their classes. The grade of a student in any course is determined by his class standing and his examination, combined in such proportion as the instructor in charge of the course may decide. Class standing in any course is determined by the quality of the student's work, the regularity of his attendance, and the thoroughness of his preparation. The instructor's evaluation of the student's work is expressed by letters, which have values, on a scale of 100, as follows:

A, excellent (95-100)	I, incomplete
B, good (85-94)	DROP, if a course is dropped
C, satisfactory (75-84)	WTDN, withdrawn from the
D, poor (65-74)	University
F, failure (64 or below)	WP, withdrew passing
	WF, withdrew failing

The grade of I (incomplete) indicates that the student has not completed the course for some unavoidable reason that is acceptable to his instructor. This grade may be changed by the instructor and credit allowed when the requirements of the course have been met, provided the work has been completed within the first four weeks of the next semester the student is in residence; and provided further that the deficiency is made up within one calendar year from the date the grade of I was given, even if the student has not re-entered the University. If the student fails to complete the course within the specified time, no credit will be given for the course. The fee for a late examination is \$1.00.

All grades, with the exception of I, when once reported, can be changed only by the instructor who reported them, and then only after approval by the faculty Committee on Entrance and Credits.

A student has the privilege of repeating a course in an attempt to improve the grade previously made. The grade he makes the last time the course is taken is the grade that will be considered as the final grade.

All courses for which the student is registered are recorded as passed (with a letter grade), failed, dropped, withdrew passing, withdrew failing, or incomplete. In no case is credit allowed in any course for which the student is not duly registered. No student will be granted credit for a course which is not properly entered on his official registration card.

Quality Points. For the purpose of computing averages, grades are converted to quality points. Each grade of A counts 4 quality points per semester hour; B, 3 quality points; C, 2 quality points; D, 1 quality point; F, DROP, WTDN, WP, and WF, no quality points.

In computing a student's scholarship ratio, or quality point average, all courses attempted are included. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, C, F; he has thus accumulated quality points in the amount of 12, 9, 6, 6, 0, for a total of 33. In computing his quality point average, the number of hours attempted (15) is divided into the quality points earned (33) for an average of 2.2.

CLASS ATTENDANCE

Students at Memphis State University are expected to give their scholastic obligations first consideration. Prompt and regular class attendance is considered necessary for satisfactory work. It is expected that a student will regard an engagement to attend classes as he would any other engagement or conference with an instructor. All reasons for absence should be submitted as soon as possible to the instructor. The satisfactory explanation of absences does not in any sense relieve the student from responsibility for the work of his course during his absence. The instructor in charge of a course determines in all instances the extent to which absences and tardiness affect the student's grade. Absences are counted from the first scheduled meeting of the course.

Absence from the final examination without the permission of the instructor incurs a mark of F.

CREDIT BY CORRESPONDENCE OR EXTENSION

Memphis State University accepts a limited number of credits earned by correspondence and/or extension, provided that such credits are taken from an institution which is a member of the University Extension Association, The Teachers College Extension Association, or the appropriate regional accrediting association. Mem-

phis State University offers some work by extension but none by correspondence.

Not more than one-fourth of the semester hours applied on the bachelor's degree may be earned by correspondence or extension or a combination of the two.

A student who has completed the two semesters of required residence in his junior and senior years and who lacks NO MORE than four semester hours toward completion of degree requirements may earn these additional credits by acceptable correspondence or extension work, or by residence at another approved institution. (For details of residence requirements, see page 77.)

CREDIT BY EXAMINATION

Examinations for credit in courses offered by the University may, under special circumstances, be offered to students who believe they have already mastered the material of the course through private study, technical employment, or the like. The following regulations govern the granting of credit by examination:

1. Permission to take an examination for credit will be given only in instances where the student has already gained fundamental knowledge of the subject. In no case will a student be permitted to take a credit examination in a course which he has audited or taken for no credit, or in which he has previously made a grade of D or F. Nor may he take the examination for credit if he has already earned credit in a course of equivalent or more advanced standing.

2. Permission to take a credit examination will be granted only to students who are registered for no less than 12 semester hours in residence and who are in good academic standing. Permission to take a credit examination must be secured from the instructor of the course, the department chairman, and the director of the school in which the student is registered. After permission has been granted, the Dean of Admissions will issue an official permit for the examination after the payment of the cost of the examination plus a fee of \$3.00 per semester hour. No instructor may give a credit examination until the official permit from the Dean of Admissions is presented.

3. Credit examinations normally will be given in conjunction with the final examination in the course for which credit is sought. The faculty and administrative personnel involved may choose to require a standardized examination instead of the final examination, or in addition to it. In no case will credit examinations be administered while the University is not in session.

4. The maximum credit which may be established through credit examination is 15 semester hours with not more than 8 semester hours in one area. Credit for course work earned on an examination basis will not be recorded until the student has successfully completed a more advanced course in the subject with at least a C grade.

5. Credit examinations are indicated on the pupil's record as P. To pass a credit examination the student must make a grade equivalent to least a C in the course. Grades on credit examinations will not be used in computing the quality point average.

COURSES FOR NO CREDIT

Students who are not candidates for a degree, and who do not desire to meet admission requirements and earn credit at Memphis State University, may take certain courses for no credit. Anyone interested should consult the director of the school in which he desires to take such courses.

ADDING AND DROPPING COURSES

After the official registration period is over the student may make adjustments in his schedule through the process of adding and/or dropping courses. Courses may be added only during the first five days of classes (three days in The Summer Session). Courses may be dropped only during the first five weeks of classes (eight days in The Summer Session). Exact dates of termination are carried in the University Calendar.

A course may be added or dropped only by permission of the student's adviser and the director of the school in which the student is registered. Dropping a course without permission incurs the grade of F.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University must notify the Dean of Students promptly in writing. Failure to give such notification will result in grades of F on all courses for which the student is registered. Students enrolled in The Evening Division should report their withdrawals to the office of the director of The Evening Division.

Withdrawal from the University is not permitted within one week of the beginning of the final examination period of a semester or a summer term.

Any student who withdraws after the termination of the period during which courses may be dropped (see above, Adding and Dropping Courses) will have all courses not previously dropped recorded as either WP (Withdrew Passing) or WF (Withdrew Failing).

SCHOLASTIC STANDARDS

The Dean's List. The Dean's List is composed of those students who make at least three A's, not more than two B's, no C's or less;

who are carrying not less than fifteen semester hours exclusive of required physical education; and who complete all courses for which they are registered.

The Honor Roll. For the selection of honor students, the faculty has adopted the following regulations:

1. Only those students who enroll for at least 12 semester hours credit, complete all courses for which they are registered, make some honor points, and are otherwise in good standing, are eligible for the honor roll. Students on probation and others who are scholastically deficient are not eligible.
2. From the list of eligible students, the highest ten percent are selected on the basis of honor points earned.
3. For a grade of B, 5 honor points for each semester hour are allowed; for a grade of A, 10 points.

Retention Standards. A minimum quality point average of 2.0 is required for graduation from the University. A student who has acquired 66 or more semester hours credit with less than a 2.0 average will be warned. Failure to bring the scholastic average up to 2.0 in a reasonable time will lead to exclusion from the University.

Probation. A student who makes less than a 1.5 quality point average or passes less than 50% of his attempted load for a semester will be placed on scholastic probation. If, during his next semester of attendance, the student's quality point average is again below 1.5, or if he passes less than 50% of the work attempted, he will be suspended for an indefinite period of not less than one full semester. If, at the end of his suspension he is readmitted to the University, he must remove probation during the first semester of his readmittance. A quality point average of 1.5 together with the passing of 50% of his attempted load will remove the student from probation.

Any student who fails probation the second time is excluded from the University. A student who withdraws while on scholastic probation is presumed to have failed his probation.

Part Six:

GRADUATION
FROM THE
UNIVERSITY

DEGREES OFFERED

THE degrees conferred by Memphis State University are offered through The School of Arts and Sciences, The School of Business Administration, The School of Education, The Department of Industrial Arts, and The Graduate School, as follows:

The School of Arts and Sciences: *Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Medical Technology*

The School of Business Administration: *Bachelor of Business Administration*

The School of Education: *Bachelor of Science*

The Department of Industrial Arts: *Bachelor of Science*

The Graduate School: *Master of Arts*

Courses required for all bachelor's degrees are outlined in the section which follows; specific requirements for the individual degrees will be found in the sections of this catalog devoted to a description of the undergraduate schools. Requirements for the Master of Arts degree will be found in the Bulletin of The Graduate School.

GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

The following requirements have been established by the University for all undergraduate degrees offered. In addition, the student must meet the requirements for his specific degree as established by the school or department in which it is offered.

1. *English.* All students must complete successfully English 111, 112, 211, and 212, or their equivalent. They are to be taken consecutively through the freshman and sophomore years. No credit will be allowed on any course until all the preceding courses are completed. These courses may not be dropped from the student's schedule except under very special conditions.

2. *History.* All students must complete successfully History 221 and 222, or their equivalent. These courses are not open to students who have earned less than 25 semester hours credit.

3. *Science.* All students must complete successfully one year in a natural or physical science; this requirement must be met with a two-semester sequence course in one science (biology, chemistry, mathematics, physical geography, or physics.)

4. *Physical Education.* Four semesters of physical education activity courses are required of all students during the first four semesters in the University, except those who complete two years of Air Force ROTC for whom only two semesters of physical education are required. All students

are required to take Physical Education 100 for one semester; they may then complete their requirements by selecting activity courses on the 200 level. No student other than a physical education major may apply more than four semester hours of basic physical education to the minimum degree requirements of 132 semester hours. A student unable for medical or other reasons to take regular physical education is required to register for an adaptive class, or otherwise follow recommendations of the office of health services.

5. *Writing Proficiency.* Every student entering Memphis State University on or after September 1, 1961, is required to pass a writing proficiency examination. He becomes eligible to take the examination as soon as he has successfully completed 70 semester hours of work. Students who transfer to Memphis State University on or after September 1, 1961, with 70 or more semester hours are eligible immediately to take the examination. Anyone who enrolled at Memphis State University as a regular student prior to September 1961, will not be required to take the examination unless his program is reorganized under the provisions of the catalog of 1961-62 or later. Dates of the examinations are listed in the University Calendar. For further details see Associate Professor William R. Osborne, Chairman of the Committee on Writing Proficiency, Room 232, Administration Building.

6. *Air Force ROTC.* All able-bodied full-time male students under 26 years of age, except those who have served an extended period of active military duty, are required to complete successfully the first two years of the Air Force ROTC program. If a student who is required to take part in this program fails to schedule the prescribed basic training any semester, he will not be allowed to re-enter the University any subsequent term without scheduling the proper basic training courses each semester thereafter until the two years have been successfully completed. Exceptions to these regulations can be granted only by the Professor of Air Science.

7. *Quality Point Average.* To receive a bachelor's degree from any of the schools in the University, a student must have at least 132 semester hours credit and at least 264 quality points (133 semester hours and 266 quality points for the Bachelor of Fine Arts); for the method of computing the quality point average, see page 71. If for any reason a student offers more than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour of credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the University. Students who enter Memphis State University with advanced standing are required to maintain an average of C on all courses taken here.

8. *Residence Requirements.* A student will satisfy the residence requirements for graduation by establishing residence as a full-time student (one registered for not less than 12 semester hours) for not less than two of the four semesters of his junior and senior years, provided that his last semester shall be in residence. A student who has completed the two semesters of required residence in his junior and senior years as a full-time student and who lacks NO MORE than four semester hours toward completion of his degree requirements may earn these additional credits by residence at another approved institution, or by acceptable correspondence or extension work.

GRADUATION WITH DISTINCTION

The University gives special recognition to those of its graduates who have attained certain scholastic standards and fulfilled other requirements adopted by the faculty.

DEFERRED GRADUATION

A student is ordinarily allowed to graduate under the requirements of the catalog of the year in which he enters the University. If a student begins work on a degree and fails to complete the requirements, he must, after seven years from the date he entered, reorganize his degree plan to conform to the current catalog.

THREE-YEAR PRE-PROFESSIONAL CURRICULA

A student who completes six semesters of undergraduate work before entering an advanced professional school may, upon evidence of satisfactory completion of the first year of work in the professional school, be granted a baccalaureate degree from Memphis State University, provided that all the following provisions are met:

1. The minimum requirements for entrance to professional school must be sixty semester hours of undergraduate work.

2. The professional school must be accredited by the recognized national association in its field or must be an integral part of a university accredited by the appropriate regional association.

3. The last two semesters of pre-professional work must be done at Memphis State University.

4. The candidate must complete 99 semester hours in a pre-professional curriculum.

5. The candidate must complete, in his pre-professional curriculum, at least 24 semester hours in courses numbered above 299, including at least 6 semester hours in his major field.

6. The candidate must meet all freshman and sophomore requirements of the degree curriculum.

7. The candidate must complete a minimum of 24 semester hours in his major area and 18 semester hours in his minor area.

The candidate in the pre-professional degree program should notify the director of his school of his intentions no later than the beginning of his sophomore year and should, with the guidance of his adviser, plan his program at that time.

Pre-professional programs available in The School of Arts and Sciences and The School of Business Administration will be found on pages 90 and 104.

REQUIREMENTS FOR TEACHER CERTIFICATION

An undergraduate student at Memphis State University who wishes to receive a certificate to teach in the elementary or sec-

ondary schools of the State of Tennessee must (1) file an application for admission to the teacher training program with the director of The School of Education; applications for admission to the teacher education program can not be considered until the student has completed a minimum of one year of college work to the satisfaction of the faculty of The School of Education; (2) complete successfully all of the University requirements for a baccalaureate degree; and (3) complete successfully the courses outlined in Sections I, II, and III, below.

Graduate, special, and transfer students who wish certification should confer with the Director of Certification concerning their individual requirements, particularly the credit to be allowed on courses taken elsewhere or at an earlier time.

I. PROFESSIONAL EDUCATION (24 semester hours)

Education 101, 102, 201, 202, and the courses in *one* of the following groups:

For the elementary certificate: Education 385, 386, and 425

For the secondary certificate: Education 381, 391, 415, and 416

II. GENERAL EDUCATION (48 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements outlined in Section III, below.)

English 111, 112, 211, 212

Health 101

History 221, 222

Mathematics: 6 semester hours (for the elementary certificate); 3 semester hours (for the secondary certificate)

Science: 9 semester hours (including one two-semester sequence course) in one or two of the following sciences: biology, chemistry, physics, physical geography (Geography 111, 112)

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than Geography 111, 112, 411, 412), political science, sociology.

Two courses (3 semester hours each) in the humanities, one course to be chosen from each of *two* of the following departments: Art, Classical Languages, History, Modern Languages, Music, Philosophy, Psychology, Speech and Drama.

One of the following courses: Home Economics 171, 241, 471, 482; Industrial Arts 362; Economics 313; Psychology 111, 213, 214; Sociology 211, 212.

III. SPECIFIC SUBJECT MATTER ENDORSEMENT (Choose A, B, C, or D, or any combination of these.*)

(Courses taken to meet the requirements of Section II, above, may, if applicable, be used to meet any part of the requirements of this section.)

*The student whose major is in The School of Education must complete requirements for certification in two or more teaching areas with a combined minimum of 36 semester hours. (This requirement may be met by the completion of two endorsement areas for the secondary certificate provided they total at least 36 semester hours.)

A. CORE CURRICULUM (82 semester hours)

Endorsement for core curriculum requires 82 semester hours distributed over the broad fields of language arts, social studies, science, library service, and others. For specific requirements the student should consult the chairman of the Department of Curriculum and Instruction.

B. ELEMENTARY CERTIFICATE (48 semester hours)

Art 111, 301

Biology: 6 semester hours in biology courses.

Geography 121, 122, 351

Health 231 (or 241), 301 (or 302)

History 431

Library Service 321

Music Education 123, 124

Physical Education 350, 391

Speech 491

C. SPECIAL EDUCATION (62 semester hours)

To receive a certificate in special education, the student must complete the requirements for the elementary certificate and, in addition, must complete the courses listed in *one* of the following groups:

1. Educably mentally retarded (18 semester hours)

Education S553

Special Education 427, 480, 481, 482

One of the following courses: Art 301; Education 102, 476; Speech 466, 467

2. Crippling and special health conditions (18 semester hours)

Special Education 428, 480, 483, 484, 485

One of the following courses: Education 456; Special Education 481, 482; Speech 466, 467, 468

D. SECONDARY CERTIFICATE (Choose one or more)

1. ART. (24 semester hours)

Art 111, 115, 116, 121, 122, 301, 313, 361

2. ARTS: FINE AND INDUSTRIAL (33 semester hourse)

Art 111, 121, 122, 301, 313

Industrial Arts: 18 semester hours in industrial arts courses, with not less than 6 semester hours in each of three of the following areas: drafting, woodwork, metalwork, electricity, crafts, mechanics.

3. BUSINESS

All applicants for certification in business subjects are required to complete (a) a group of basic courses and (b) additional courses for endorsement in one or more specific fields; the same course may be applied in both areas.

a. Basic requirements (18 semester hours)

Accounting 201, 202

Economics 211, 212

One course from each of *two* of the following areas:

Management 101, 301; Secretarial Science 351, 352; Mathematics 301

b. Specific endorsement field (choose one or more)

(1) Bookkeeping (10 semester hours)

Accounting 201, 202, 272, and one additional upper-division course in accounting.

- (2) Business Arithmetic (6-9 semester hours)
Mathematics 121, 122, and 301
or
Mathematics 122 and 301
 - (3) Business English (3 semester hours)
Secretarial Science 351 *or* 352
 - (4) Business Law (6 semester hours)
Management 301, 302
 - (5) Business machines (3 semester hours)
Management 271 *or* Secretarial Science 371
 - (6) Consumer education (3 semester hours)
Economics 313 *or* Home Economics 482
 - (7) Economics (12 semester hours)
Economics 211, 212, and two additional upper-division courses (6 semester hours) in economics, finance, or management
 - (8) General business (9 semester hours)
Management 101 (or 312), 301; and a minimum of 3 semester hours in mathematics, the specific courses to be chosen in conference with the adviser
 - (9) Office and clerical practice (3 semester hours)
Secretarial Science 431, *or* 432, *or* 442
 - (10) Salesmanship (6 semester hours)
Marketing 301, 361
 - (11) Secretarial practice (15 semester hours)
Endorsement in office and clerical practice, shorthand, and typewriting
 - (12) Shorthand (6 semester hours)
Six semester hours in shorthand, including one upper-division course
 - (13) Typewriting (6 semester hours)
Six semester hours in typewriting, including one upper-division course
4. ENGLISH (12 semester hours)
English 442
One of the following courses: English 311, 312, 313, 451, 452
Two additional upper-division English courses (6 semester hours)
5. FOREIGN LANGUAGE (18-24 semester hours)
Endorsement may be obtained in French, German, Latin, and/or Spanish; the specific courses to meet certification requirements must be selected in conference with the chairman of the department in which the language is offered. Semester hour requirements are as follows:
- If two or more units of one foreign language were taken in high school: 18 semester hours in that language
- If fewer than two units were taken in high school: 24 semester hours in one language
- (If a student has had two or more units in each of two foreign languages in high school, he may be certified in both languages if he completes a total of 30 semester hours in these same languages, with a minimum of 12 semester hours in each.)

6. HEALTH INSTRUCTION (15 semester hours)
Health 231, 241, 301, 302
One of the following courses: Health 476; Home Economics 471; Sociology 312; Special Education 485. (Health 416 may be elected with permission of the chairman of the Department of Health and Physical Education.)
7. HEALTH AND PHYSICAL EDUCATION (25 semester hours)
Health 231, 241, 301, 302
Physical Education 327 (or 328), 342, 351, 382, 391
8. HOME ECONOMICS (*Non-vocational*) (30 semester hours)
Home Economics 111, 211, 312, 241, 242, 341, 291, 471, 481, 482
9. INDUSTRIAL ARTS (18 semester hours)
Eighteen semester hours in industrial arts courses, including at least 9 semester hours in one of the following areas of specialization: drafting, woodwork, metalwork, electricity, crafts.
10. LIBRARY SERVICE (12-18 semester hours)
Endorsement may be obtained as either (a) librarian or (b) teacher-librarian.
 - a. Librarian: Library Service 321, 322, 323, 411, 412, 421
 - b. Teacher-librarian: Library Service 323, 411, 421, and one of the following courses: Library Service 321 (for elementary certification) or Library Service 322 (for secondary certification)
11. MATHEMATICS (18 semester hours)
Mathematics 141, 211, and 8 additional semester hours in mathematics courses.
12. MATHEMATICS AND PHYSICAL SCIENCE (51-53 semester hours)
Mathematics 141, 211, and 5 additional semester hours in mathematics courses.
Chemistry 111, 112
Physics 211, 212 (or Physics 251, 252)
Physical geography or geology: 8 semester hours
Mathematics and/or physical sciences electives: 12 semester hours
13. MUSIC (39-45 semester hours)
All applicants for certification in music are required to complete (a) a group of basic courses and (b) additional courses for endorsement in a specific field:
 - (a) Basic requirements (30 semester hours)
Music 111A, 111B, 112A, 112B, 211A, 211B, 317
One of the following courses: Music 110, 319, 401, 402
Applied music: 12 semester hours (in class instruction or individual lessons) approved by the chairman of the Department of Music Education
 - (b) Specific field of endorsement (Choose either or both)
 - (1) School music (9 semester hours)
Music 417

Music Education 331

One of the following courses: Music Education 132, 134, 136

(2) Instrumental music (15 semester hours)

Music 315, 417

Music Education 331

Applied music (on one instrument): 6 semester hours

14. SCIENCE

Endorsement may be obtained in (a) biology, (b) chemistry, (c) physics, (d) general science, and/or (e) a combination of sciences.

a. Biology (16 semester hours)

Biology 141, 142, and 7 additional semester hours in biology courses.

b. Chemistry (16 semester hours)

Chemistry 111, 112, and 8 additional semester hours in chemistry courses

c. Physics (16 semester hours)

Physics 211, 212 (or Physics 251, 252) and 8 additional semester hours in physics courses.

d. General Science (16 semester hours)

Biology: 6-11 semester hours in biology, including one two-semester sequence course chosen from the following: Biology 111, 112, 141, 142

Chemistry or physics: 6 semester hours

Science elective (if needed to make up a total of 16 semester hours)

e. Broad field of science (32 semester hours)

If a student earns a total of 32 semester hours or more in three of the following sciences, he may receive endorsement for each one in which he has earned a minimum of 8 semester hours: biology, chemistry, geology, physics

15. SOCIAL STUDIES

Endorsement may be obtained in (a) economics, (b) geography, (c) government, (d) history, (e) sociology, and/or (f) the broad field of social studies.

a. Economics (12 semester hours)

Economics 211, 212, and 6 additional semester hours in economics courses

b. Geography (12 semester hours)

Geography 121, 122, 351, and 3 additional semester hours in geography courses

c. Government (12 semester hours)

Political Science 221, 222, and 6 additional semester hours in political science courses

d. History (12 semester hours)

History 111, 112, and 6 additional semester hours in a two-semester upper-division sequence course in history.

e. Sociology (12 semester hours)

Sociology 211, 212, and 6 additional semester hours in sociology courses

- f. Broad field of social studies (30 semester hours)
 - History 111, 112; Economics 211, 212; Geography 111, 112;
 - Political Science 221, 222; Sociology 211, 212
- 16. SPEECH (15 semester hours)
 - Speech 111, 245, 466 (or 491), 492, and 3 additional semester hours in speech courses

Part Seven:

THE SCHOOLS AND DIVISIONS
OF THE UNIVERSITY

THE SCHOOL OF ARTS AND SCIENCES

WALTER RHEA SMITH, B.A., M.A., Ph.D., *Director*
Room 211, Administration Building

THE School of Arts and Sciences has three distinct functions within the framework of the University.

1) Its primary function is to offer a strong liberal arts program designed to help the student prepare himself for life in his own cultural setting by acquiring the means and the desire continually to enlarge his intellect and deepen his insights. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings. Men are men before they are lawyers, physicians, or manufacturers; and if you make them capable and sensible men, they will make themselves capable and sensible lawyers and physicians." It is the earnest belief of The School of Arts and Sciences that the essential preparation for any profession or vocation is a thorough foundation in those major fields of human interest which are included in the humanities, the natural sciences, and the social sciences. The program of liberal studies at Memphis State University aims to provide the student with a store of factual knowledge; to introduce him to varying sets of principles; to stimulate him to think about and to evaluate these facts and principles; and to encourage him to order his own affairs and those of his society with the talent, insight, and discrimination which he develops.

2) The School of Arts and Sciences offers this kind of education, not only to the candidates for its own degrees, but also to the students of other schools of the University, all of whose degree plans call for courses in the liberal arts.

3) A third important function of the school is to offer preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, engineering, law, and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

DEGREES OFFERED

The School of Arts and Sciences offers five degrees: two are academic, the Bachelor of Arts and the Bachelor of Science; three are professional, the Bachelor of Fine Arts, the Bachelor of Music, and the Bachelor of Science in Medical Technology. Requirements for these degrees are outlined in the section beginning on page 91.

ORGANIZATION OF THE SCHOOL

Departments. The School of Arts and Sciences comprises sixteen departments: Art, Biology, Classical Languages, English, Geography, History, Journalism, Mathematics, Modern Languages (French, German, Hebrew, Russian, Spanish), Music, Philosophy, Physical Sciences (chemistry and physics), Political Science, Psychology, Sociology and Anthropology, and Speech and Drama. Requirements for the majors and minors offered by these departments are listed in the section beginning on page 96.

Concentration groups. The various offerings of the sixteen departments of The School of Arts and Sciences are organized into three concentration groups:

HUMANITIES: art, English, French, German, Greek, history, journalism, Latin, mathematics, music, philosophy, psychology, Russian, Spanish, speech.

NATURAL SCIENCES: biology, chemistry, geography, mathematics, physics

SOCIAL SCIENCES: anthropology, economics (administered by The School of Business Administration) geography, history, philosophy, psychology, political science, sociology

Lower and Upper Divisions. The Lower Division comprises the freshman and sophomore years, the first four semesters of undergraduate work; courses in the lower division are numbered from 100 through 299. In order to be admitted to the Upper Division, the student must have completed the work of the Lower Division with an average grade of C (a quality point average of 2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the Upper Division. A student who completes the work of the Lower Division with less than a C average will be given one additional semester in which to reach this standard; if, at the end of this additional semester, his average is below C, he will be advised to withdraw from the University.

The Upper Division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the Upper Division are numbered from 300 through 499. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the Lower Division, must schedule these uncompleted requirements during the first semester in which such courses are available.

ADMISSION

All applicants for admission to The School of Arts and Sciences must meet the general University requirements listed in the section beginning on page 48.

In addition, students who plan to become candidates for degrees in The School of Arts and Sciences must meet the following requirements:

Bachelor of Arts. In order to be admitted to the Lower Division of The Schools of Arts and Sciences as a candidate for the Bachelor or Arts degree the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; foreign language, at least 2 units in one language; the remainder to be chosen from other high school units, with not more than 3 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 101.)

Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Science in Medical Technology. In order to be admitted to the lower division of The School of Arts and Sciences as a candidate for one of the preceding degrees, the student must have graduated from an approved high school with at least 15 units, divided as follows: English, at least 3 units; mathematics, at least 2 units; the remainder to be chosen from other high school units, with not more than 4 from vocational subjects. It is strongly urged that the elective units be concentrated in the humanities, the natural sciences, and the social sciences. (If the student offers only one unit in mathematics, he may be admitted to the Lower Division, but will be required to complete successfully Mathematics 101.)

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail on page 77. A transfer student in The School of Arts and Sciences must be in residence at Memphis State University as a full-time student during his final semester before graduation and for at least one additional semester during his junior and senior years; he must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor.

FOREIGN LANGUAGE REGULATIONS

1. A student who has completed two or more units in high school in one foreign language may not receive credit at Memphis State University for the first year (the courses numbered 111 and 112) of that language.

2. A student may not receive credit for anything less than *two* semesters (six semester hours) in beginning courses (111, 112) in one foreign language; for example, he will receive no credit, elective or otherwise, for French 111 unless he completes French 112 or a higher numbered course in French. Credit will be allowed for a single semester's work in courses numbered above 199, and for single courses in Hebrew.

3. Foreign-born students may receive credit for courses in their mother tongue and its literature only (1) for courses taken in native institutions of college level, or (2) for upper-division courses taken at Memphis State University or in another English-speaking institution of approved standing.

4. Specific requirements in foreign languages for the degrees offered by The School of Arts and Sciences are as follows:

A. *BACHELOR OF ARTS*: three years (eighteen semester hours), on the equivalent (see #5 below), in one foreign language. (Greek 111 and 112 may be substituted for six semester hours of upper-division Latin; six semester hours of Latin may be substituted for six semester hours of upper-division Greek). If the student elects to continue the study of the same foreign language which he studied in high school, the following regulations apply:

- 1) If he had less than two units of one foreign language in high school, he must complete three years (eighteen semester hours) in one foreign language.
- 2) If he had two or three units of one foreign language in high school, he will fulfill the requirements with two years (twelve semester hours) in the same language in courses numbered above 199.
- 3) If he had four units in one foreign language in high school, he will fulfill the requirements with one year (six semester hours) in the same language in courses numbered above 299.

B. *BACHELOR OF SCIENCE, BACHELOR OF FINE ARTS, BACHELOR OF MUSIC, BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY*: one year (six semester hours) in one foreign language. If the student elects to continue the study of the same foreign language he studied in high school, the following regulations apply:

- 1) If he had less than two units of one foreign language in high school, he will fulfill the requirements with one year (six semester hours) in one foreign language.
- 2) If he had two or three units of one foreign language in high school, he must complete one year (six semester hours) in the same language in courses numbered above 299.
- 3) If he had four units of one foreign language in high school, he must complete one year (six semester hours) in the same language in courses numbered above 299.

5. Any student who feels that he is already prepared in a foreign language may meet the graduation requirements and/or the lower-division requirements for a major or minor (but may *not* receive semester hour credit) by passing a proficiency examination to be given by the Department of Modern Languages; requests for such examinations should be addressed to the chairman of that department. This provision does not apply to the native tongues of foreign-born students. (See #3, above).

PRE-PROFESSIONAL TRAINING

Standing committees of the faculty are available to advise students interested in preparing for careers in various professional areas; committee members, representing departments of the University in which pre-professional training is given, advise students concerning specific programs required by the various professional schools and furnish them with curriculum schedules showing the semester in which each of the required courses should be taken. A student who completes successfully six semesters of undergraduate work before entering an accredited professional school may, upon presentation of evidence of satisfactory completion of the first year of professional education, be granted a baccalaureate degree from Memphis State University provided that the requirements set forth in the three-year pre-professional curriculum described on page 78 are met. The advisory committees are as follows:

Pre-Medical (Professor Elmore Holmes, chairman; Room B20, Manning Hall). This committee advises students interested in careers in medicine, dentistry, nursing, pharmacy, optometry, veterinary medicine, medical technology, and related fields in the health sciences.

Pre-Law (Professor Erwin Clyde Buell, chairman; Room 236, Johnson Hall). In general, accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students enrolling in The School of Arts and Sciences for their pre-law training are encouraged to enter immediately one of the degree programs offered by the school.

Pre-Engineering (Associate Professor Don Pearson Claypool, chairman; Room 134, Manning Hall). Students who plan to enter the engineering profession can complete one, two, or three years of pre-professional training at Memphis State University; this training is composed of the basic subjects required in most of the engineering options offered by the professional schools.

Pre-Social Work (Assistant Professor Joseph Wesley Hart, chairman; Room 221, Johnson Hall). The student who wishes to prepare for admission to a graduate school of social work or who plans to go directly from college into a social work program will complete the requirements for the baccalaureate degree with a major in either sociology or psychology; specialized courses will be chosen in conference with the adviser.

TEACHER PREPARATION

Students enrolled in a degree program of The Schools of Arts and Sciences who wish to prepare themselves for teaching careers in the elementary or secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined in the section beginning on page 78. Application to enter the program of teacher preparation must be made in the office of the director of The School of Education.

REQUIREMENTS FOR THE DEGREES

BACHELOR OF ARTS

To qualify for the degree of Bachelor of Arts the student must complete 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 299) and at least 90 semester hours must be in courses offered within The School of Arts and Sciences. Not more than 18 semester hours (excluding physical education) may be taken in courses outside The School of Arts and Sciences. Not more than 42 hours will be accepted in any one subject (except chemistry*). Detailed requirements are as follows:

English 111, 112, 211, 212

Foreign language: for details see page 88

History 221, 222

Biology 141, 142

One two-semester sequence course (6 semester hours or more) in chemistry, mathematics, physics, or Geography 111 and 112

A social science: 6 semester hours

Air Force ROTC (for men only); for details see page 77

Physical education (2 or 4 semester hours); for details see page 76

*Chemistry majors may be allowed to take more than 42 semester hours in chemistry courses in order to meet the minimum standards set up by the American Chemical Society.

Completion of the requirements for a major selected from one of the concentration groups listed on page 87. A minimum grade of C is required of every course for the major except in beginning courses and in sophomore English. Specific course requirements for all majors and minors offered in The School of Arts and Sciences are listed in the section beginning on page 96.

Completion of the requirements for a minor in a subject other than the major but in the same concentration group as the major

Electives to bring the total to 132 semester hours.

BACHELOR OF SCIENCE

To qualify for the degree of Bachelor of Science in The School of Arts and Sciences the student must complete 132 semester hours with a quality point average of 2.0 (on a scale in which the grade of A has a quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division (those numbered above 299) and at least 90 semester hours must be in courses offered within The School of Arts and Sciences. Not more than 18 semester hours (excluding physical education) may be taken in courses outside The School of Arts and Sciences except in the field of the minor. Not more than 42 semester hours will be accepted in any one subject (except chemistry*). Detailed requirements are as follows:

English 111, 112, 211, 212

Foreign language; for details see page 88

History 221, 222

One two-semester sequence course (6 semester hours or more) in biology, chemistry, mathematics, physics, or Geography 111 and 112

Air Force ROTC (for men only); for details see page 77

Physical education (2 or 4 semester hours); for details see page 76

Completion of the requirements for a major selected from one of the concentration groups listed on page 87. A minimum grade of C is required of every course for the major except in beginning courses and in sophomore English. Specific course requirements for all majors and minors offered in The School of Arts and Sciences are listed in the section beginning on page 96.

Completion of the requirements for a minor in any subject (other than the major) offered by any department of the University.

Electives to bring the total to 132 semester hours

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in art than he has under the other baccalaureate programs; for this degree a total of 133 semester hours is required for

*Chemistry majors may be allowed to take more than 42 semester hours in chemistry courses in order to meet the minimum standards set up by the American Chemical Society.

graduation, 81 of which must be in art courses. A minimum grade of C is required in all upper-division art courses; the student must maintain an overall quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1.) The specific degree requirements are divided into five groups; (1) general education, (2) basic art courses, (3) courses in *one* of the three concentration areas; (4) elective courses in art; and (5) elective courses other than art (but within The School of Arts and Sciences) to bring the total to 133 semester hours.

- (1) General education courses
English 111, 112, 211, 212
Foreign language; for details see page 88
History 221, 222
One two-semester sequence course (6 semester hours or more) in biology, chemistry, mathematics, physics, or Geography 111 and 112
Air Force ROTC (for men only); for details see page 77
Physical education (2 or 4 semester hours); for details see page 76
- (2) Basic art courses
Art 115, 116, 213, and 214 (Drawing)
Art 121, 122, 215, and 216 (Design)
Art 337, 338, 411, and 412 (Art History)
Art 241 and 242 (Graphics)
Art 461 (Seminar)
- (3) Concentration area. Choose a, b, or c
 - a. Painting
Art 331, 332, 431, and 432 (Watercolor)
Art 333, 334, 433, and 434 (Oil)
 - b. Graphics
Art 335, 336, 441, and 442 (Graphics)
Art 331, 332, 431, and 432 (Watercolor)
 - c. Commercial Art
Art 315, 316, 423, 424 (Advertising Design)
Art 113 (Lettering)
Art 323 (Package Design)
Art 421 and 422 (Illustration)
- (4) Art electives: 12 semester hours
- (5) Elective courses other than art (but within The School of Arts and Sciences) to complete the total of 133 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Art

BACHELOR OF MUSIC

The Bachelor of Music is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in music than he has under the other baccalaureate programs; as many as 92 of the 132 semester hours required for graduation may be in music. A minimum grade of C is required in all upper-division music courses; the student must maintain an over-

all quality point average of 2.0 (on a scale in which a grade of A has a quality point value of 4; B, 3; C, 2; and D, 1. The specific degree requirements are divided into five groups: (1) general education, (2) basic music courses, (3) courses in *one* of six concentration areas, (4) music electives, and (5) elective courses other than music and music education to bring the total to 132 semester hours.

Detailed requirements are as follows; figures in parentheses indicate semester hours credit.

- (1) General education courses
 - English 111, 112, 211, and 212 (12)
 - Foreign language; for details see page 88
 - History 111, 112, 221, and 222 (12)
 - *Mathematics 121 (3)
 - *Physics 270 (3)
 - Air Force ROTC (for men only); for details see page 77
 - Physical education (2 or 4); for details see page 76
- (2) Basic music courses
 - Music 110, Introduction to Music (4)
 - Music 111, 112, 211, 212, Music Theory I and II (16)
 - Music 301, Counterpoint (3)
 - Music 308, Form and Analysis (3)
 - Music 317, Conducting and Score Reading (3)
 - Music 401 and 402, History of Music (6)
 - Music ensembles (8)
 - Individual instruction in piano, organ, voice, or orchestral instrument (8)
- (3) Concentration areas. Choose a, b, c, d, e, or f
 - a. Instrumental music (piano, organ, string, or wind instrument)
 - Individual instruction in major instrument (8)
 - Recital
 - Music 315, Instrumentation (3)
 - Small Ensembles and Chamber Music (4)
 - Piano (for non-piano majors) (2)
 - b. Voice
 - Individual instruction in voice (8)
 - Recital
 - Individual instruction in piano (4)
 - Small Ensembles (opera workshop, madrigal group, etc.) (4)
 - Music 417, Choral Techniques (3)
 - Foreign language, in addition to the six semester hours required in the general education group (12)
 - c. Music Theory and Composition
 - Music Education 132, 133, 134, 135, 136, 137, and 138 (class instruction in strings, winds, and percussion) (7)
 - Music 302 and 303, Canon and Fugue (4)
 - Music 305, 306, 405, 406, Composition I and II (8)

*Under certain circumstances, and if approved by the director of The School of Arts and Sciences, the science requirement for the Bachelor of Science degree may be substituted for these courses.

- Music 315, Instrumentation (3)
Recital or thesis
- d. Music History and Literature
Music 411, Comparative Arts (3)
Music 412, Modern Music (3)
Music 413, The Opera and Music Drama (3)
Music 414, Piano History, Literature, and Pedagogy (3)
Art 337, 338, 411, and 412, Art History I, II, III, IV (12)
English 370, Mythology (3)
Foreign language, in addition to the six semester hours required in the general education group. (6).
Recital or thesis
- e. Music Education
Music 315, Instrumentation (3)
Music 417, Choral Techniques (3)
Materials and methods: courses to be selected with adviser's approval (6-9)
Individual instruction in one instrument (4-10)
Courses in the Department of Curriculum and Instruction to meet certification requirements (24)
Courses in general education to meet certification requirements (15)
Recital.
- f. Church Music
Music Education 132, 134, 136, class instruction in string, woodwind, and brass instruments (3)
Music 315, Instrumentation (3)
Music 417, Choral Techniques (3)
Music 418 and 419, Sacred Music I and II (6)
English 380, Biblical Literature (3)
Two courses from the Department of Philosophy (6)
Recital or direction and public presentation of a cantata
- (4) Music electives: at least six semester hours in upper-division music courses selected from a concentration area other than the one chosen for the major.
- (5) Elective courses other than music and music education to bring the total to 132 semester hours. These courses will be chosen by the student in consultation with his adviser and the chairman of the Department of Music.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

For students interested in careers in medical technology, The School of Arts and Sciences offers a three-year preparatory curriculum, the successful completion of which will qualify them to enter any accredited school of medical technology for clinical training which would result in eligibility for registry. Locally the University maintains an affiliation with the schools of medical technology of the Baptist Memorial Hospital and the Methodist Hospital, both of which are fully accredited. Should a student decide to enter either of these schools after completing successfully the preparatory curriculum, he may, after one year of clinical training and two addi-

tional courses in biochemistry (the lecture sessions only) taken on this campus, apply for the degree of Bachelor of Science in Medical Technology from this University; he would also, of course, be eligible for registry. A student who wishes to pursue this degree plan must file a degree program with the director of the School of Arts and Sciences no later than the first semester of his sophomore year; he should confer with the chairman of either the Department of Biology or the Department of Physical Sciences concerning the choice of a major and a minor.

Specific requirements for the preparatory curriculum in medical technology (and the additional requirements for those working toward a baccalaureate degree) are as follows:

English 111, 112, 211, 212

Foreign language; see page 88 for details

History 221, 222

Psychology 111

Psychology 112 or Sociology 211

Physics 211 and 212

Mathematics 121 (or 141); 122 (or 211)

Biology 141, 142, 302 (or 341), 361 (or 403); the student working toward the baccalaureate degree will, in his third year, elect one additional upper-division biology course approved by the department chairman.

Chemistry 111, 112, 200, 201, 321, 322; the student working toward the baccalaureate degree will, in his fourth year, take Chemistry 401 and 402, lecture sessions only.

Air Force ROTC (for men only); see page 77 for details

Physical Education; see page 76 for details

Electives: 6 semester hours in the third year; the student working toward the baccalaureate degree will take an upper-division biology course to fulfill 3 semester hours of this requirement.

A curriculum schedule, showing the semester in which each of these courses should be taken, may be obtained from members of the Pre-Medical Advisory Committee.

IMPORTANT NOTE: The preparatory curriculum in medical technology does NOT qualify a student for the three-year pre-professional degree program described on page 78 of this catalog. Only those students who enroll in the schools of medical technology of the Baptist Memorial Hospital or the Methodist Hospital, both located in Memphis, can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

Listed below are the specific course requirements for all majors and minors offered in The School of Arts and Sciences. A minimum

grade of C is required in every course applicable toward a major except in beginning courses and in sophomore English.

ANTHROPOLOGY (See SOCIOLOGY AND ANTHROPOLOGY)

ART (*The requirements listed below are for the major and minor in art for the Bachelor of Arts or the Bachelor of Science degree; for detailed requirements for the Bachelor of Fine Arts, a professional degree, see page 92.*)

The Major: 36 semester hours in art courses, including Art 111, 115, 116, 121, 122, 301, 313, 361, and 12 additional semester hours, 3 of which must be from the upper division.

The Minor: 24 semester hours in art courses, 9 of which must be from the upper division.

BIOLOGY

The Major: 30 semester hours in biology courses, 12 of which must be from the upper division; the student will elect *one* of the following areas of concentration and meet the specific requirements outlined below:

a. Botany

Biology 141, 142, 300, 302, 304, 305, 352

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 30

Chemistry: one two-semester sequence course

b. Zoology

Biology 141, 142, 300, 331, 332

Biology electives (chosen in conference with the adviser) to bring the total semester hours in biology to 30

Chemistry: one two-semester sequence course

The Minor: 18 semester hours in biology courses (including Biology 141 and 142), 7 of which must be from the upper division

CHEMISTRY (See PHYSICAL SCIENCES)

CLASSICAL LANGUAGES

The Major in Latin: 12 semester hours in upper-division Latin courses

The Minor in Latin: 6 semester hours in upper-division Latin courses

ECONOMICS

The Major: 27 semester hours in economics courses, including Economics 211, 212, 361, 411, 413, 492; Management 371 (or Mathematics 321), and 6 additional semester hours in economics courses from the upper-division as approved by the adviser.

The Minor: 18 semester hours in economics courses, including Economics 211, 212, 361, 413, and 6 additional semester hours from the upper division as approved by the adviser.

ENGLISH

The Major: 18 semester hours in upper-division English courses, including at least one course from *each* of the following groups:

English 301, 302, 470
 English 340, 341, 342, 350, 351, 352
 English 420, 421, 422, 423, 424
 English 432, 433

The Minor: 12 semester hours in upper-division English courses, at least 6 of which must come from the courses required for the major (one course from each of two groups).

FRENCH (See MODERN LANGUAGES)

GEOGRAPHY

The Major: 30 semester hours in geography courses, as follows:
 Geography 111, 112, 121, 122
 Geography 231, 232 (or 235, 236)
 Geography 331, 332 (or 341, 342; or 322, 351)
 Two of the following courses: Geography 411, 412, 413, 414, 425, 431, 432, 433, 436, 437
 Sociology 211, 212

The Minor: 24 semester hours in geography courses, as follows:
 Geography 111, 112, 121, 122
 Geography 231, 232 (or 235, 236)
 Geography 331, 332 (or 341, 342; or 322, 351)

GERMAN (See MODERN LANGUAGES)

HISTORY

The Major: 30 semester hours in history courses, including History 111, 112, 221, 222, and 18 additional semester hours from the upper division with a minimum of 6 semester hours in European history and 6 semester hours in American history.

The Minor: 24 semester hours in history courses, including History 111, 112, 221, 222, and 12 additional semester hours from the upper division.

JOURNALISM

The Major: The Department of Journalism offers a choice of two majors, one in news-editorial and one in advertising; the requirements are as follows:

a. News-editorial: 30 semester hours in journalism courses, including Journalism 111, 112, 211, 212, 312, 332, 450, and 9 additional semester hours from the upper division.

b. Advertising: 30 semester hours in journalism and related courses, including

Journalism 111, 112, 200, 314, 315, 413, and 450
 Marketing 301

Art 315

One of the following courses: Art 316, 323, 423;
 Marketing 351, 352, 356

All journalism majors must work the equivalent of two semesters on *The Tiger Rag*, the weekly newspaper; on *The DeSoto*, University yearbook; or in the office of the University news bureau. Semester hours credit for this work, whenever it is done, will not be granted until the student's senior year.

The Minor: 18 semester hours in journalism courses, including Journalism 111, 112, 211, and 9 additional semester hours, 6 of which must be from the upper division.

LATIN (See CLASSICAL LANGUAGES)

MATHEMATICS

The Major: A minimum of 30 semester hours in mathematics courses, including Mathematics 211, 212, 312, and 15 additional semester hours from the upper division. Chemistry or physics: 8 semester hours.

The Minors 18 semester hours in mathematics courses, at least 6 semester hours of which must be from the upper division.

MODERN LANGUAGES: The Department of Modern Languages offers majors and minors in French, German, and Spanish. A student who feels that he is already prepared in any one of these languages may satisfy the lower division requirements for a major or minor (but may *not* receive semester hour credit) by passing a proficiency examination administered by the department. Details of the nature and dates of these examinations may be obtained from the department chairman.

Requirements for the majors and minors are as follows:

FRENCH

The Major: 18 semester hours in upper-division French courses, including French 311 and 312.

The Minor: 12 semester hours in upper-division French courses.

GERMAN

The Major: 18 semester hours in upper-division German courses, including German 311 and 312.

The Minor: 12 semester hours in upper-division German courses.

SPANISH

The Major: 18 semester hours in upper-division Spanish courses, including Spanish 311, 312, 341, and 342.

The Minor: 12 semester hours in upper-division Spanish courses.

MUSIC. The requirements listed below are for the major and minor in music for the Bachelor of Arts or the Bachelor of Science degree; for detailed requirements of the Bachelor of Music, a professional degree, see page 93. For requirements for the major and minor in Music Education, see page 121.

The Major: 39 semester hours in basic music courses plus the completion of the requirements for *one* concentration area; specific courses are outlined below:

a. Basic music courses (39 semester hours)

Music 110; 111, 112, 211, 212; 301, 308, 315 (or 317); 401, 402; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.

b. Concentration areas (choose one)

1. Applied Music (4 semester hours)

4 semester hours of individual instruction in upper-division courses

Recital

2. Music Theory and Composition (8 semester hours)
Music 302, 303, 305, and 306
3. Music History and Literature (9 semester hours)
Three of the following courses: Music 411, 412, 413, 414
4. Church Music (9 semester hours)
Music 417, 418, and 419

The Minor: 22 semester hours in basic music courses plus the completion of the requirements for *one* concentration area; specific courses are outlined below:

- a. Basic music courses (22 semester hours)
Music 110; 111, 112; 401, 402; and 4 semester hours of individual instruction in piano, organ, voice, or orchestral instrument.
- b. Concentration areas (choose one)
 1. Applied Music (4 semester hours)
4 semester hours of individual instruction in upper-division courses
 2. Music History and Literature (6 semester hours)
Two of the following courses: Music 411, 412, 413, 414
 3. Church Music (9 semester hours)
Music 317, 417, 418 (*or* 419)

PHILOSOPHY

The Minor: 18 semester hours in philosophy courses, including Philosophy 211, 212, and 12 additional semester hours, at least 6 of which must be from the upper division.

PHYSICAL SCIENCES: The Department of Physical Sciences offers majors and minors in chemistry, physics, and physical science. The specific requirements for each are outlined below:

CHEMISTRY

The Major: 43 semester hours in chemistry courses, plus related courses outlined below:

Chemistry 111, 112, 220, 321, 322, 341, 342, 420, 421, 422, 431, 490, 491
 Mathematics 141, 211, 212, and 312
 Physics 251, 252 (*or* 211, 212 if approved by the chairman of the Department of Physical Sciences)
 German 111, 112, 222

The Minor: 20 semester hours in chemistry courses, including Chemistry 111, 112, 220 (*or* a 4 semester-hour course from the upper division), 321, 322

PHYSICS

The Major: 32 semester hours in physics courses, including Physics 251, 252 (Physics 211, 212 are acceptable but not recommended) and additional upper-division physics courses to bring the total to 32 semester hours
 Chemistry 112
 Mathematics 312 and 6 semester hours in mathematics courses numbered above 312

The Minor: 20 semester hours in physics courses, including Physics 251, 252 (Physics 211, 212 are acceptable but not recommended), and additional upper-division physics courses to bring the total to 20 semester hours.

PHYSICAL SCIENCE: A major in physical science is suggested for those students who plan to teach the sciences in high school but do not desire to major in either chemistry or physics.

The Major: 32 semester hours in chemistry and physics courses, including Chemistry 111, 112; Physics 251, 252 (or Physics 211, 212); and additional hours in chemistry and/or physics courses from the upper division to bring the total to 32 semester hours.

The Minor: 20 semester hours in chemistry and/or physics courses, of which at least 8 semester hours must be from the upper division.

PHYSICS (*See PHYSICAL SCIENCES*)

POLITICAL SCIENCE

The Major: 24 semester hours in political science courses, including Political Science 221, 222, and 18 additional semester hours from the upper division.

The Minor: 18 semester hours in political science courses, including Political Science 221, 222, and 12 additional semester hours from the upper division.

PSYCHOLOGY

The Major: 24 semester hours in psychology courses, including Psychology 111, 112, 215, 315, and 12 additional semester hours, at least 9 of which must be from the upper division.

The Minor: 18 semester hours in psychology courses, at least 6 semester hours of which must be from the upper division.

SOCIOLOGY AND ANTHROPOLOGY

The Major: 24 semester hours in sociology courses, including Sociology 211, 212, 311, 322, 412, 422, and 6 additional hours from the upper division.
Geography 121, 122

The Minor: The Department of Sociology and Anthropology offer a choice of three minors, one in sociology, one in industrial sociology, and one in anthropology; the requirements are as follows:

- a. Sociology: 18 semester hours in sociology courses, including Sociology 211, 212, and 12 additional semester hours from the upper division.
- b. Industrial Sociology: 18 semester hours in sociology courses, including Sociology 211, 212, 311, 413, 414, and 415.
- c. Anthropology: 18 semester hours in anthropology courses, including Anthropology 211, 212.

SPANISH (*See MODERN LANGUAGES*)

SPEECH AND DRAMA

The Major: 30 semester hours of speech courses, including Speech 111, 121, 150, 231, 245, 251 (or 252 or 253), 300 (two semesters), and 10 additional semester hours from the upper division. Majors must participate in the dramatic activities of the department.

The Minor: 18 semester hours in speech courses, including Speech 111, 121, 245, 300 (one semester), 231 (or 251 or 252 or 253), and 5 additional semester hours from the upper division.

THE SCHOOL OF BUSINESS ADMINISTRATION

HERBERT JOHN MARKLE, B.B.A., M.A., Ph.D., *Director*
Room 100, *The School of Business Administration Building*

THE function of The School of Business Administration is to provide the basic education necessary to prepare a person to enter the profession of business. A significant characteristic of the school is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. From forty to sixty per cent of the course work taken for the Bachelor of Business Administration degree is taken in such areas as the humanities, the natural and physical sciences, and the social sciences.

AREAS OF PROFESSIONAL TRAINING

The School of Business Administration offers a wide selection of general and specialized fields, each of which has programs designed to prepare students for a variety of careers:

Careers in Accountancy: Accounting is a vital activity in any business. The increased complexity of financial records resulting from federal regulations and the expanded use of automation necessitates a highly technical background for persons who prepare financial reports. The Department of Accountancy offers preparation in governmental, industrial, and public accounting. It administers the testing program of The American Institute of Certified Public Accountants, the national scope of which enables students to check their individual ratings with national averages. Graduates with a major in accounting are qualified to take the Certified Public Accountants' examination in Tennessee; students desiring a career in public accounting are encouraged to intern with a public accounting firm in their senior year.

Careers in Economics and Finance: A sound understanding of our economic system is a must for today's businessman. In addition, business employs the professional economist for forecasting and explaining the effect of changing economic variables. Many economists are employed by government for comparable reasons. Training in economics is designed to increase awareness of economic problems and encourage the student to analyze alternative solutions for himself.

Courses in finance are designed to prepare the student for

careers in financial institutions, and the finance departments of business. Governmental finance broadens the student's understanding of important national and international problems and encourages the consideration of alternative solutions.

Careers in Management: The decisions of management in business are more and more being recognized as having broad implications extending beyond the individual firm. In recognition of this, the Department of Management offers the broad preparation necessary for future managers, with specialization in a number of important areas.

Careers in Marketing: The Department of Marketing provides training for those interested in the growing field of distribution. The young person possessed of energy, ability, and the competitive urge will discover that training and development in marketing skills opens many opportunities in serving the public as well as material reward. Training will prepare for occupations in the field of retailing, advertising, purchasing, wholesaling, industrial marketing, sales management, or marketing research. Students have the opportunity to gain valuable work-experience during the senior year in their specific major in marketing.

Careers as Professional Secretaries: The value of a secretary, either man or woman, with a university degree is receiving increasing recognition by business executives; the same thing is true in the field of office management. Thorough training in both fields is provided by the Department of Secretarial Science and Office Management.

Careers in Business Education: Preparing students to teach business subjects in the secondary schools is an important function of The School of Business Administration. A student with a major in any one of the five departments of the school may qualify for a high school teaching certificate; he will minor in education and complete the certification requirements outlined on page 78. The chairman of the Department of Secretarial Science and Office Management serves as adviser to all students in the School of Business Administration preparing for a career in business education.

THE PRE-LAW CURRICULUM

A student enrolled in The School of Business Administration who wishes to prepare himself for entrance to law school may qualify for the Bachelor of Business Administration degree by completing all the requirements of the pre-professional degree program outlined on page 78, and by completing successfully one year at an

accredited law school. He must (1) meet all the lower-division requirements of The School of Business Administration as outlined page 107; (2) select a major in either accountancy, economics, finance, or management and meet the requirements as determined by the chairman of the department concerned; (3) select a minor in one of the foregoing departments or some other department in the University, and meet the requirements as determined by the chairman of the department concerned; and (4) complete a minimum of 99 semester hours overall before entering law school. All upper-division courses taken in fulfillment of this program must be approved by the chairman of the department in which the student is majoring.

ORGANIZATION OF THE SCHOOL

The School of Business Administration comprises five departments: Accountancy, Economics and Finance, Management, Marketing, and Secretarial Science and Office Management. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 109.

The school is organized into a lower division and an upper division:

THE LOWER DIVISION comprises the freshman and sophomore years, the first four semesters of university work. Courses offered in the lower division are numbered from 100 through 299; the student must register consistently for all of his lower-division requirements until they are completed.

THE UPPER DIVISION comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 300 through 499.

A few courses in the 500 series (normally open only to graduate students) are open to seniors within 36 semester hours of graduation; such courses are identified by the "S" prefixed to the course number (e.g., Economics S-513, Seminar in Economics).

LABORATORY FACILITIES

The School of Business Administration provides nine laboratories for development of facility in business: four accounting laboratories with individual tables for students; three secretarial laboratories, two for typewriting and one for general secretarial and office practice; one laboratory for statistics, equipped with adding

machines and calculators; and laboratory work on electronic data computers.

ADMISSION

The requirements for admission to The School of Business Administration are those set up for the University as a whole; see page 48.

A student who has attended another accredited college or university, or who has received correspondence and/or extension credit from such an institution, will be given credit for all acceptable residence work and for a maximum of 33 semester hours in acceptable correspondence and/or extension work. To be acceptable, a course must be approved by the Committee on Admissions and the quality point average must meet the minimum standards set by the University; see page 48 for details.

RESIDENCE REQUIREMENTS

A transfer student must be in residence at Memphis State University during his final semester before graduation and for at least one additional semester during his junior and senior years. He must take a minimum of 15 semester hours of work in The School of Business Administration, of which 9 or more must be in his major field. He must complete 6 or more semester hours in his minor. If the minor is in The School of Business Administration, the 6 hours may be a part of the required 15. Adjustments in major requirements may be made where feasible, but only with the approval of the director of The School of Business Administration.

University residence requirements are explained in detail on page 77.

DEGREE REQUIREMENTS

The School of Business Administration offers the degree of Bachelor of Business Administration. To qualify for this degree the student must complete 132 semester hours with a quality point average of 2.0 (on a scale where A gives 4 quality points; B, 3; C, 2; D, 1). Of the 132 semester hours required for graduation, at least 48 must be in courses from the upper division (those numbered above 299). A grade of C or better must be earned in every upper-division course applied toward satisfaction of the specific major.

General requirements for the degree include the successful completion of (I) required courses in the lower division; (II) required courses in the upper division; (III) requirements for a major in

The School of Business Administration; and (IV) requirements for a minor in either The School of Business Administration or another school of the University. These requirements are outlined in detail in the sections which follow.

I. REQUIRED COURSES IN THE LOWER DIVISION

(Figures in parentheses indicate semester hours credit. One-semester courses may be taken either semester)

First Semester

English 111 (3)
Speech 101 (3)
A biological or physical science (3)
Management 101 (3)
Physical Education 100 (1)
Air Force ROTC 111 (for men) (1)
An elective course (3)

Second Semester

English 112 (3)
Mathematics 122, or a higher numbered mathematics course (3)
A biological or physical science (3)
Psychology 111 (3)
Physical Education 100 or 200 (1)
Air Force ROTC 112 (for men) (2)
An elective course (3)

NOTES:

- a. The student who expects to major in accountancy may, with permission of his adviser enroll in Accounting 201 and 202 in his freshman year, taking Accounting 272 (Laboratory) along with Accounting 202.
- b. Typewriting ability is a basic requirement. Every student will enroll in a typewriting class during his first semester in The School of Business Administration or arrange to take a proficiency examination. If he fails the proficiency examination, he must enroll in a typewriting class the following semester; he must pass either the typewriting course or the test before he arrives at junior classification.
- c. The science requirement must be met by a two-semester sequence course.
- d. Air Force ROTC is required of all men except those excused by the Professor of Air Science; for details see page 77.

Third Semester

Accounting 201 (3)
English 211 (3)
History 221 (3)
Economics 211 (3)
Physical Education 200 (1)
Air Force ROTC 211 (for men) (2)
An elective course (3)

Fourth Semester

Accounting 202 (3)
English 212 (3)
History 222 (3)
Economics 212 (3)
Physical Education 200 (1)
Air Force ROTC 212 (for men) (1)
An elective course (3)

NOTES:

- a. Accounting 311 and 312 may be taken by the student with credit in Accounting 202.
- b. The student planning to major in secretarial science may start shorthand in the sophomore year.
- c. Men taking Air Force ROTC 211 and 212 may be excused from the two semesters of Physical Education 200.
- d. If a student has credit in Accounting 202 and Economics 211, he may enroll in Management 341 during his fourth semester.

- e. Marketing 301 should be taken in the fourth semester by marketing majors and by all others who can fit it into their schedules (and who have completed Economics 211).

II. REQUIRED CORE COURSES IN THE UPPER DIVISION

Every student enrolled for the degree of Bachelor of Business Administration, with the exceptions noted below, must complete successfully the following six courses:

- Economics 361, Money and Banking I (3)
- Management 301 and 302, Business Law (6)
- Management 341, Business Organization (3)
- Management 371, Business Statistics (3)
- Marketing 301, Principles of Marketing (3)

NOTES:

- a. Students enrolled in the three-year pre-law curriculum will omit Management 301 and 302 and Marketing 301.
- b. Majors in secretarial science will take Management 301 and 302 and two additional courses from the above list (12 semester hours).

III. THE MAJOR

With the assistance of his adviser, each student, not later than the beginning of his junior year, will select from the list below an area of specialization, called the major. After selecting his major the student will report to the director of The School of Business Administration for assignment to a major professor in the department in which the major is offered. Listed below are the five departments of The School of Business Administration and the majors offered in each; the specific courses required by each department for the satisfaction of its majors are listed in the section beginning on page 109.

DEPARTMENT OF ACCOUNTANCY

- Governmental accounting
- Industrial accounting
- Public accounting

DEPARTMENT OF ECONOMICS AND FINANCE

- Banking
- Business finance
- Economic analysis and research
- Economic theory
- Government finance
- Investments

DEPARTMENT OF MANAGEMENT

- Business research
- General business management
- Industrial management
- Insurance
- Personnel administration and industrial relations
- Real estate
- Transportation

DEPARTMENT OF MARKETING

- Advertising
- Physical distribution
- Retail management
- Sales management
- Wholesale-industrial marketing

DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE
MANAGEMENT
Office management
Secretarial science

IV. THE MINOR

To broaden his background every student is required to complete sufficient work in an area other than his major to evidence some degree of specialization in that area. Two options are available:

a. The minor in The School of Business Administration

If the student elects a minor from The School of Business Administration, he must choose one from a department other than the one in which his major is offered. The minor program must be approved by the chairman of the minor department early in the student's junior year; it must include a minimum of 9 semester hours of courses from the upper division. (A student whose major is in another school of the University and who wishes a minor in The School of Business Administration may choose a minor from any department; the requirements are listed, by departments, below. A general minor in business administration is not available.)

b. The minor in another school of the University

The student whose major is in The School of Business Administration may complete a minor in any one department of any school of the University, provided that such a minor consist of a minimum of 18 semester hours, at least 6 semester hours of which must be in courses from the upper division (numbered above 299).

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

DEPARTMENT OF ACCOUNTANCY: The objective of the Department of Accountancy is to provide the graduate with a substantial background in accountancy which will enable him to adjust himself to any accounting situation and to advance rapidly in government, industry, or public accounting practice. The curriculum is designed to enable the student to achieve mastery of the generally accepted accounting principles and procedures as they are applied in all fields of accounting and to study modern accounting trends and techniques and the current controversial topics in his profession.

Specialization is provided in (1) governmental accounting, (2) industrial accounting, and (3) public accounting.

The Major: Accounting 272 (Laboratory) and a minimum of 27 semester hours in upper-division accounting courses, as follows:

311 and 312, Intermediate Accounting I and II

331 and 332, Cost Accounting I and II

421, Advanced Accounting I

451, Federal Income Tax I

324, Internal Auditing (if the specialization is industrial accounting)

or

424, Auditing I (if the specialization is public accounting
Two additional upper-division accounting courses, approved by the department chairman

The Minor: a minimum of 19 semester hours in accounting courses, as follows:

201 and 202, Fundamentals of Accounting

272, Accounting Laboratory

311, Intermediate Accounting I

331, Cost Accounting I

Two additional upper-division accounting courses, approved by the department chairman

DEPARTMENT OF ECONOMICS AND FINANCE

The Major in Economics (THE SCHOOL OF BUSINESS ADMINISTRATION):

a minimum of 21 semester hours in upper-division courses, as follows:

312, Economics of Business Enterprises

321, Labor Economics

413, Economic Theory I

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Economic analysis and research

Economic theory

The Major in Economics (THE SCHOOL OF ARTS AND SCIENCES): the student will be required to meet the requirements for either the Bachelor of Arts or the Bachelor of Science degree plus the specific major requirements:

211, 212, Principles of Economics I and II

361, Money and Banking I

411, Development of Economic Thought

413, Economic Theory I

492, Government Fiscal Policy

Management 371 or Mathematics 321, Statistics

Two additional approved upper-division courses, for a total of 27 semester hours

The Major in Finance: a minimum of 21 semester hours in upper-division economics courses, as follows:

451, Public Finance

461, Money and Banking II

491, Government Regulation and Business Policy

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Banking

Business finance

Government finance

Investments

The Minor:

- a. For students whose major is within The School of Business Administration: three approved upper-division courses in economics or finance, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.

- b. For students whose major is in another school of the University:

ECONOMICS MINOR: Economics 211 and 212, Principles of Economics I and II

Economics 361, Money and Banking I

Economics 413, Economic Theory I

Two additional approved upper-division courses

FINANCE MINOR: Accounting 201 and 202, Fundamentals of Accounting

Economics 211 and 212, Principles of Economics I and II

Economics 361, Money and Banking I

Management 341, Business Organization

Two additional approved upper-division courses

DEPARTMENT OF MANAGEMENT

The Major: a minimum of 21 semester hours in upper-division courses, as follows:

Economics 312, Economics of Business Enterprise

Economics 321, Labor Economics

Management 441, Corporation Finance

or

Management 442, Management of Business Enterprise

A minimum of 12 semester hours in courses related to one of the following areas, selected with the approval of the major professor:

Business research

General business management

Industrial management

Insurance

Personnel administration and industrial relations

Real estate

Transportation

The Minor:

- a. For the student whose major is within The School of Business Administration: three approved upper-division courses in management, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.

- b. For the student whose major is in another school of the University:

Accounting 201 and 202, Fundamentals of Accounting

Economics 211 and 212, Principles of Economics I and II

Economics 361, Money and Banking I

Management 341, Business Organization

Two additional approved upper-division courses in management

DEPARTMENT OF MARKETING: The objective of the Department of Marketing is to provide the student with a broad concept of the marketing process and to develop an understanding of all the factors involved in the collection and distribution of goods and services.

The Major: a minimum of 24 semester hours in upper-division marketing courses, as follows:

351, Principles of Advertising
361, Salesmanship
381, Principles of Retailing
401, Marketing Administration

A minimum of 12 semester hours (15 semester hours for Sales Management) in upper-division courses applicable to the specific major; the specific major and the applicable courses will be selected, in conference with the adviser, from the following:

- 1) **ADVERTISING:** designed to provide an understanding of mass communication media, advertising agencies, retail advertising departments, advertising management, and other advertising activities. A minimum of four courses will be chosen from the following:
 - 314, Advertising Copy Writing
 - 315, Advertising Design I
 - 316, Advertising Design II
 - 352, Advanced Advertising
 - 358, Advertising Law and Business Ethics
 - 454, Industrial Advertising
 - 455, Television and Radio Advertising
 - 456, Retail Advertising, Display and Promotion
 - 459, Work Experience in Advertising
 - 491, Marketing Research
- 2) **PHYSICAL DISTRIBUTION:** this major covers efficient acquisition and movement of products at all levels including purchasing and transportation. A minimum of four courses will be chosen from the following:
 - 421, Wholesale-Industrial Marketing
 - 422, Purchasing
 - 429, Work Experience in Physical Distribution
 - 491, Marketing Research
 - Accounting 331, Cost Accounting I
 - Accounting 332, Cost Accounting II
 - Economics 304, Transportation
 - Management 449, Time and Motion Analysis
 - Secretarial Science 442, Office Management
- 3) **RETAIL MANAGEMENT:** this major gives the student a background in the operation and management of a retail establishment. A minimum of four courses will be chosen from the following:
 - 382, Buying and Pricing
 - 453, Retail Advertising, Display and Promotion
 - 481, Home Furnishing and Equipment
 - 482, Retail Policies and Problems
 - 485, Credit and Collections
 - 489, Work Experience in Retail Management
 - 491, Marketing Research
 - Home Economics 312, Textiles
- 4) **SALES MANAGEMENT:** this major gives the student a thorough grounding in the techniques of making

sales presentations effectively and prepares him to enter the field of sales management. A minimum of five courses will be chosen from the following:

- 362, Sales Theory and Techniques
- 366, Sales Promotion
- 421, Wholesale-Industrial Marketing
- 422, Purchasing
- 461, Sales Management
- 462, Sales Supervision and Training
- 469, Work Experience in Sales
- 485, Credit and Collections
- 491, Marketing Research

- 5) **WHOLESALE-INDUSTRIAL MARKETING:** this major presents a broad view of distribution and procurement of goods and services at wholesale and industrial levels, including agricultural products. A minimum of four courses will be chosen from the following:

- 321, Marketing Farm Products
- 421, Wholesale-Industrial Marketing
- 425, Product Planning
- 428, International Marketing
- 435, Cotton Marketing
- 439, Work Experience in Wholesale-Industrial Marketing
- 461, Sales Management
- 491, Marketing Research
- Industrial Arts 341, Engineering Materials

The Minor:

- a. For the student whose major is within The School of Business Administration: three approved upper-division courses in marketing, exclusive of the basic upper-division requirements for the Bachelor of Business Administration degree.
- b. For the student whose major is in another school of the University:
 - Accounting 201 and 202, Fundamentals of Accounting
 - Economics 211 and 212, Principles of Economics I and II
 - Marketing 301, Principles of Marketing
 - Three additional upper-division marketing courses approved by the department chairman

DEPARTMENT OF SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

The student planning to major in either secretarial science or office management will take in his freshman year Secretarial Science 121 and 122, Elementary Typewriting I and II. If he has had previous training in typewriting, he may, with the approval of his adviser, omit 121 and take 122 and a higher-numbered typewriting course, or one semester of an elective.

The student planning to major in secretarial science will take, in his sophomore year, Secretarial Science 211 and 212, Fundamentals of Shorthand I and II. If he has had previous training

in shorthand, he may, with the approval of his adviser, omit 211 and take 212 and a higher-numbered shorthand course, or one semester of an elective. Students planning to major in office management may omit shorthand from their programs.

NOTE: No more than 3 courses (9 semester hours) in typewriting may be applied toward satisfaction of the degree requirements by a student with high school credit in typewriting.

The Major in Secretarial Science: a minimum of 24 semester hours of upper-division secretarial science courses, as follows:

- 311, Advanced Shorthand
- 351, Business Report Writing
- 352, Business Letter Writing
- 371, Secretarial Office Machines
- 431, Applied Secretarial Practice
- 442, Office Management I

Two of the following courses, selected in conference with the adviser:

- 312, Advanced Shorthand
- 321, Advanced Typewriting
- 421, Secretarial Typewriting
- 432, Applied Secretarial Practice II
- 433, Secretarial Dictation
- 452, Executive Communication
- S-542, Office Management II

The Major in Office Management: a minimum of 24 semester hours of upper-division courses, as follows:

- 351, Business Report Writing
- 352, Business Letter Writing
- 371, Secretarial Office Machines
- 442, Office Management I
- Accounting 321, Financial Statement Analysis
- Economics 312, Economics of Business Enterprise

One of the following courses, selected in conference with the adviser:

- 452, Executive Communication
- S-542, Office Management II
- Management 421, Personnel Administration
- Management 441, Corporation Finance
- Management 442, Management of Business Enterprise
- Marketing 485, Credit and Collections

The Minor in Secretarial Science:

- a. For the student whose major is within The School of Business Administration: one course (above the beginning courses) in shorthand; one course (above the beginning courses) in typewriting; and two additional upper-division courses in secretarial science approved by the department chairman.
- b. For the student whose major is in another school of the University:
 - 121 and 122, Elementary Typewriting I and II
 - 211 and 212, Fundamentals of Shorthand I and II
 - 311, Advanced Shorthand I
 - Two or three additional approved upper-division courses in secretarial science

(If the student can demonstrate proficiency in either typewriting or shorthand, he may omit either Secretarial Science 121 or 211, thus reducing the hours required for the minor from 21 to 18; a minimum of 18 semester hours is required).

The Minor in Office Management:

- a. For the student whose major is within The School of Business Administration:
 - 351, Business Report Writing
 - 352, Business Letter Writing
 - 371, Secretarial Office Machines
 - 442, Office Management
- b. For the student whose major is in another school of the University:
 - Accounting 201 and 202, Fundamentals of Accounting
 - Economics 211 and 212, Principles of Economics I and II
 - Secretarial Science 442, Office Management
 - Two additional upper-division courses in secretarial science approved by the department chairman.

THE SCHOOL OF EDUCATION

SAM HOWARD JOHNSON, B.S., M.Ed., Ed.D., *Director*
Room 203, Administration Building

THE School of Education has as its objectives (1) to be an articulated part of the general and cultural program of the University; (2) to provide a program of teacher education which promotes the growth and development necessary for successful teaching; (3) to recruit desirable candidates for the teaching profession; (4) to assist in placing teachers; (5) to provide professional service to public schools in the service area; and (6) to develop and carry out a continuing program of educational research. Several curricula leading to the degree of Bachelor of Science are available. Candidates for this degree take required and elective courses within The School of Education and, in preparation for teaching in certain areas, take courses in The School of Arts and Sciences and in The School of Business Administration. Students who wish to matriculate in the teacher education program must meet the special criteria of that program in addition to the general University admission requirements. Applications for admission to this program cannot be considered until the student has completed a minimum of one year of college work to the satisfaction of the faculty of The School of Education.

ACCREDITATION

The School of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate and graduate programs for the preparation of elementary and secondary teachers and supervisors are fully accredited by the National Council for Accreditation of Teacher Education.

ORGANIZATION OF THE SCHOOL

The School of Education comprises five departments: Curriculum and Instruction, Educational Administration and Supervision, Health and Physical Education, Home Economics, and Music Education. These departments offer a variety of majors and minors, the detailed requirements for which are listed in the section beginning on page 119. The University Training School, a public school comprising grades 1 through 6, is operated under the supervision of The School of Education.

The School of Education is organized into a lower division and an upper division:

THE LOWER DIVISION comprises freshman and sophomore years, the first four semesters of university work; courses offered in the lower division are numbered from 100 through 299. In order to be admitted to the upper division, the student must have completed the work of the lower division with an average grade of C (2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the upper division. Students who complete the work of the lower division with less than a C average will be given one additional semester in which to reach this standard. If, at the end of this additional semester, the student's average is below C, he will be advised to withdraw from the University.

THE UPPER DIVISION comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the upper division are numbered from 300 through 499. Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the lower division, must schedule these uncompleted requirements during the first semester in which such courses are available.

THE UNIVERSITY TRAINING SCHOOL

The University Training School, located on the campus, is a public school comprising grades 1 through 6, operated by the University as a part of the public school system of the City of Memphis; it offers a broad program of training for approximately 700 students. This school serves the teacher education program as a laboratory in which prospective teachers observe, study, and practice the art of teaching. Varied opportunities are offered University students to study children, to study a school program, and to participate in teaching activities. Through the training school arrangements have been made for the use of other city schools for purposes of teacher education. Student experiences with the teachers of the training school, and with the many other fine teachers in the area, are considered an integral part of preparation for a teaching career.

The University also conducts a Nursery and Kindergarten School, administered by the principal of the Training School in cooperation with the Department of Curriculum and Instruction and the Department of Home Economics. The school is a non-profit institution and tuition charges are determined by the cost of operation.

ADMISSION

The requirements for admission to The School of Education are those set up for the University as a whole; see page 48. Students who wish to matriculate in the teacher education program must meet the special criteria of that program in addition to the general University admission requirements; applications for admission to this program can not be considered until the student has completed a minimum of one year of college work to the satisfaction of the faculty of The School of Education.

DEGREE REQUIREMENTS

To qualify for the Bachelor of Science degree in The School of Education the student must complete 132 semester hours with a grade point average of 2.0 (on a scale in which A has the quality point value of 4; B, 3; C, 2; and D, 1). Of the 132 semester hours required for graduation, at least 39 must be in courses from the upper division (those numbered above 299).

At least 60 semester hours of the credit applied on the degree must be in liberal content. Courses in the following fields offered in The School of Arts and Sciences will meet this requirement: anthropology, art (non-applied), biology, chemistry, English, geography, history, journalism (non-applied), languages, mathematics, music (non-applied), philosophy, physics, political science, psychology, sociology, and speech. The following courses offered in The School of Education will meet this requirement: Education 102, 451, 452, and 453; Health 101; Home Economics 171, 181, 241, and 471.

General requirements for the degree include the successful completion of (I) the general education program, (II) the professional education program, (III) physical education activity courses, (IV) a major in The School of Education, and (V) certification in two or more teaching areas. These requirements are outlined in detail in the sections which follow.

I. THE GENERAL EDUCATION PROGRAM (48 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements of Section V, below.)

English 111, 112, 211, and 212

Health 101

History 221, 222

Mathematics 101, 102 (for students desiring an elementary certificate)

or

Mathematics 101 or any higher-numbered mathematics course (for students desiring a secondary certificate)

Science: 9 semester hours (including one two-semester sequence course) in one or two of the following sciences: biology, chemistry, physics, physical geography (Geography 111, 112)

One course (3 semester hours) in one of the following social sciences: anthropology, economics, geography (other than Geography 111, 112, 411, 412), political science, sociology

Two courses (3 semester hours each) in the humanities, one course to be chosen from each of *two* of the following departments: Art, Classical Languages, History, Modern Languages, Music, Philosophy, Psychology, Speech and Drama

One of the following courses: Home Economics 171, 241, 471, 482; Industrial Arts 362; Economics 313; Psychology 111, 213, 214; Sociology 211, 212

II. THE PROFESSIONAL EDUCATION PROGRAM (24 semester hours)

Education 101, 102, 201, 202, and the courses in one of the following groups:

For the elementary certificate: Education 385, 386, and 425

For the secondary certificate: Education 381, 391, 415, and 416

III. PHYSICAL EDUCATION ACTIVITY COURSES

Four semesters of physical education activity courses; students completing two years of Air Force ROTC courses are required to take only two semesters of physical education. No student other than a physical education major may apply more than four semester hours of basic physical education to the minimum degree requirements of 132 semester hours.

IV. A MAJOR IN THE SCHOOL OF EDUCATION

The student will choose one of the following majors offered in The School of Education. The specific courses required for the satisfaction of these majors are listed below.

Elementary education (offered in the Department of Curriculum and Instruction)

Health

Home economics

Music education

Physical education

Secondary education (offered in the Department of Curriculum and Instruction)

V. CERTIFICATION IN TWO OR MORE TEACHING AREAS

The student must complete the requirements of individual departments for certification in the State of Tennessee in *two* or more teaching areas (combined minimum of 36 semester hours) with a C average in each, unless special exception is made by the director of The School of Education. Specific course requirements for all of the endorsements offered in the University are listed in the section beginning on page 78.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

DEPARTMENT OF CURRICULUM AND INSTRUCTION. The Department of Curriculum and Instruction offers majors in two areas (ele-

mentary education and secondary education) and minors in four areas (elementary education, secondary education, library service, and special education).

The Majors

ELEMENTARY EDUCATION: 33 semester hours, as follows

Education 101, 102, 201, 202, 385, 386, 425

Three courses (9 semester hours) chosen from the following: Education 325, 351, 382, 423, 424, 426, 429, 442, 443, 444, 445, 446, 451, 452, 453, 456, 462, 466, 471, 476, S-541, S-553, S-565, S-566

Special Education 427, 428, 480, 481, 482, 483, 484, 485

Library Service 411, 421

SECONDARY EDUCATION: 33 semester hours, as follows:

Education 101, 102, 201, 202, 381, 391, 415

Three courses (9 semester hours) chosen from the following: Education 351, 416, 451, 452, 453, 456, 461, 466, 471, 472, 476, S-541, S-553, S-565, S-566, S-584

Special Education 427, 428, 480, 481, 482, 483, 484, 485

Library Service 411, 421

The Minors: A co-requisite for all the minors listed below is the completion of the requirements for certification to teach in the State of Tennessee; these requirements are outlined in the section beginning on page 78.

ELEMENTARY EDUCATION: 24 semester hours and co-requisites, as follows:

Education 101, 102, 201, 202, 385, 386, 425, and completion of requirements for the endorsement, grades 1 through 9.

SECONDARY EDUCATION: 24 semester hours and co-requisites, as follows:

Education 101, 102, 201, 202, 381, 391, 415, 416, and completion of requirements for one endorsement, grades 7 through 12.

LIBRARY SERVICE: 18 semester hours in library service courses in conference with the adviser, plus certification in any area of either elementary or secondary education. (The student who wishes certification in library service should confer with the director of The School of Education.)

SPECIAL EDUCATION: 21 semester hours in special education courses chosen in conference with the adviser, plus certification in elementary education.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION. The Department of Educational Administration and Supervision does not offer courses at the undergraduate level; students who plan graduate study in this area should consult the Bulletin of The Graduate School.

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION. Majors and minors are offered in (1) health and (2) health and physical education

The Major in Health. 36 semester hours, as follows:

Health 101, 150, 231, 241, 301, 302, 416 (or 417), 450, 470, 480

Six semester hours chosen from the following courses:

Health 151 (or Biology 330)

Health 250

Health 414 (or 415)

Health 476 (or Special Education 485)

Health 417 (with permission of the instructor and provided that student has had or is enrolled in Health 416)

The Major in Health and Physical Education

FOR MEN: 42 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 111, 212, 217, 241, 245, 246, 260, 261, 281, 282, 283, 284, 310, 328, 332, 342, 351, 391, 482

Biology 131, 132, 344

FOR WOMEN: 41 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 111, 241 243, 245, 246, 253, 260, 261, 310, 327, 328, 332, 342, 351, 391, 482

The Minor in Health. 18 semester hours, as follows:

Health 101, 231, 241, 301, 302

One of the following courses: Health 476, Sociology 312, Home Economics 471, Special Education 485 (Health 416 on recommendation of department chairman)

The Minor in Health and Physical Education

FOR MEN: 30 semester hours as follows:

Health 101, 231, 301, 302

Physical Education 328, 332, 342, 351, 391, 482

One of the following courses: Physical Education 281, 282, 283, 284

FOR WOMEN: 28 semester hours, as follows:

Health 101, 231, 301, 302

Physical Education 327 (or 328), 332, 342, 351, 391, 482

DEPARTMENT OF HOME ECONOMICS

The Major. 36 semester hours in home economics courses and 15 semester hours in related courses, as follows:

Home Economics 111, 171, 211, 241, 242, 291, 312, 341, 342, 471, 481, 482

Biology 341

Chemistry 111, 112

Sociology 211

The minor. 18 semester hours in home economics courses, including Home Economics 111, 181 (or 211), 241, 471, and one additional course from the upper division.

DEPARTMENT OF MUSIC EDUCATION

The Major. The major requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas:

1. Basic music courses (58 semester hours):
Music 110, 111, 112, 211, 212, 301, 308, 315, 317, 401, 402
Music ensembles: 8 semester hours
Applied music (either class or individual instruction, or both, in piano, voice, winds, strings, as determined by the student's adviser. All students must obtain four semester hours in piano or must demonstrate ability in piano equivalent to Music Education 131): 12 semester hours
2. Concentration areas (Choose one.)
 - a. School music (9 semester hours)
Music 417
Music Education 132, 134, 136, 321
 - b. Instrumental music (12 semester hours)
Music 417
Music Education 331
Individual instruction in one instrument: 6 semester hours

The Minor. The minor requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentration areas

1. Basic music courses (33 semester hours)
Music 110, 111, 112 (or any combination of basic theory courses totaling 12 semester hours.)
Music 315, 317, 401 (or 402)
2. Concentration areas. (Choose one.)
(*The requirements in each of the concentration areas for the minor are the same as for the major, outlined above.*)

THE DEPARTMENT OF INDUSTRIAL ARTS

R. J. COLTHARP, B.A., M.S., *Chairman*
Room 100, Industrial Arts Building

THE objectives of the Department of Industrial Arts are three-fold: first, to provide professional training for (1) teachers and administrators in the specialized areas of industrial arts education, (2) elementary teachers in appropriate phases of industrial arts, (3) those interested in industrial training programs, and (4) therapists in the manual skill areas; second, to provide students in the pre-engineering curriculum with technical laboratory experiences and materials and production studies; and third, to contribute to the general education aims of the University through studies of current industrial materials and practices and participation in representative manipulative experiences.

ADMISSION

Requirements for admission to the Department of Industrial Arts are the same as those for admission to the University, outlined in the section beginning on page 48.

RESIDENCE REQUIREMENTS

A transfer student must be in residence at Memphis State University during his final semester before graduation and for at least one additional semester during his junior and senior years. University residence requirements are explained in detail on page 77.

DEGREE REQUIREMENTS

To qualify for the Bachelor of Science degree with a major in industrial arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0 (on a scale in which an A has the quality point value of 4; B, 3; C, 2; D, 1). Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the upper division (those numbered above 299.) To be applicable toward a major or a minor all courses taken in the Department of Industrial Arts must be completed with a grade of C or better.

General requirements for the degree include the successful completion of (I) basic University requirements, (II) basic courses in industrial arts, (III) a major in industrial arts, (IV) a minor

in another department of the University, and (V) approved elective courses. These requirements are outlined in detail in the sections which follow:

- I. **BASIC UNIVERSITY REQUIREMENTS:**
All of these requirements must be completed before the student will be permitted to enroll in any senior courses (those numbered above 399)
English 111, 112, 211, 212
History 221, 222
Physical Education
Air Force ROTC (for men only)
- II. **BASIC COURSES IN INDUSTRIAL ARTS**
Industrial Arts 141, 151, 161, 171, 281, and 341
- III. **THE MAJOR IN INDUSTRIAL ARTS**
Each candidate must complete a major in one of the following areas of emphasis, detailed requirements for which will be found below.
Construction estimating
Drafting and design
Industrial arts education
Industrial technology
Wood technology
- IV. **THE MINOR IN ANOTHER DEPARTMENT OF THE UNIVERSITY**
Each candidate must complete a minor in another department of the University; specified minors are listed for all major areas except industrial arts education.
- V. **ELECTIVES**
The candidate will elect courses from any department in any school in the University to bring the total to 132 semester hours. The outlines of the detailed requirements for the five majors contain recommendations as to the specific areas in which these electives should be concentrated; in every case they are subject to the approval of the student's adviser.

REQUIREMENTS FOR MAJORS AND THE MINOR IN INDUSTRIAL ARTS

THE MAJORS

CONSTRUCTION ESTIMATING: This major is designed for students wishing to participate in the general area of contracting and estimating. Several of the courses required for this major are of the cooperative type, giving students a first-hand approach to successful estimating procedures. Specific requirements for this major are as follows:

Industrial Arts: 36 semester hours, as follows: Industrial Arts 152, 252, 342, 351, 352, 355, 363, 373, 433, 447, 453, 454.

Management, mathematics, or marketing: Completion of a minor in one of these departments. (See page 111 for the management minor, page 99 for the mathematics minor, and page 113 for the marketing minor).

Management, mathematics, or marketing; 6 or more semester hours in each of the two not selected as the minor.

Chemistry or physics: 8-10 semester hours

Economics or sociology: 6 semester hours

Psychology: 6 semester hours

Speech: 3 semester hours

DRAFTING AND DESIGN: This major is designed for students interested in professional training in drafting and industrial design; a close correlation is maintained with programs in local industry through field study and guest lecturers in order that emphasis may be placed on current design problems, methods, and practices in industry. Specific requirements for the major are as follows:

Industrial arts: 27 semester hours as follows:

Industrial Arts 152, 251, 252, 253, 351, 352, 437, 447, 449.

Art: completion of the requirements for a minor in the Department of Art, including Art 113, 121, 122, 323 and 12 additional semester hours in art courses from the upper division.

Chemistry or physics: 6-10 semester hours

Economics or sociology: 6 semester hours

Marketing: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

Speech: 3 semester hours

(The student working toward a major in drafting and design should concentrate as many of his elective hours as possible in courses in marketing.)

INDUSTRIAL ARTS EDUCATION: This major is designed for students interested in meeting Tennessee state certification requirements for teaching industrial arts or participating in therapeutical work; special attention is given to local instructional methods and problems through visits to local schools and through interviews with local, area, and state supervisors. Specific requirements for this major are as follows:

Industrial arts:

(a) 18 semester hours as follows: Industrial Arts 252, 291, 335, 362, 372, 436

(b) Additional industrial arts courses to complete a minimum of 9 semester hours in each of *two* of the following areas: drafting, woodwork, metalwork, electricity.*

Completion of the general and professional education requirements for a secondary school certificate with endorsement in industrial arts. (Certification requirements are outlined in detail on page 78.)

INDUSTRIAL TECHNOLOGY: This major is designed for students wishing to participate in industry as technologists; emphasis is placed on training for manufacturing and production, with additional emphasis on the techniques and procedures of industrial engineering. Specific requirements for this major are as follows:

Industrial arts: 27 semester hours, as follows: Industrial Arts 342, 363, 373, 433, 437, 438, 442, 447, 449

Management or marketing: completion of the requirements for a minor in one of these departments. (See page 111 for the management minor, page 113 for the marketing minor.)

*The areas of specialization in industrial arts courses are identified by the second digit in the course numbers; the identifying number for courses in engineering is 4, drafting is 5 (e.g., Industrial Arts 151, Engineering Graphics); woodwork is 6; metalwork is 7; electricity is 8; and education is 9.

Management or marketing: 6 semester hours in the department not selected as the minor

Chemistry or physics: 8-10 semester hours

Economics or sociology: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

Speech: 3 semester hours

WOOD TECHNOLOGY: This major is designed for students interested in the lumber industry, especially the processing and use of lumber and wood products; close contact is maintained with local industry through visits, films, and guest lecturers. Specific requirements for this major are as follows:

Industrial arts: 36 semester hours, as follows: Industrial Arts 252, 261, 272, 342, 361, 362, 363, 372, 437, 442, 447, 449

Biology or chemistry: completion of the requirements for a minor in either biology or chemistry. (See page 97 for the biology minor, page 100 for the chemistry minor.)

Economics or sociology: 6 semester hours

Mathematics: 6-10 semester hours

Psychology: 9 semester hours

(The student working toward a major in wood technology should concentrate as many of his elective hours as possible in management or marketing courses.)

THE MINOR

Industrial Arts 141, 151, and 15 additional semester hours in industrial arts courses, 9 semester hours of which must be from the upper division. To be counted toward a minor, all industrial arts courses must be completed with a grade of C or better.

THE DEPARTMENT OF AIR SCIENCE

GEORGE L. ANDERSON, B.A., M.A., *Lieutenant Colonel, United States Air Force, Professor of Air Science, Room B-11, Jones Hall*

THE United States Air Force provides at Memphis State University a four-year program in the Reserve Officers Training Corps designed to select and train students to serve as officers in the regular and reserve components of the Air Force. The program is divided into two units of two years each: (1) the Basic Course, for which the student enrolls during his freshman and sophomore years; and (2) the Advanced Course, for which the student enrolls during his junior and senior years.

THE BASIC COURSE. This two-year course (6 semester hours) is required of all able-bodied male students at Memphis State University who are between 14 and 26 years of age; *any* exception to this regulation can be made only by the Professor of Air Science. Normally all veterans and certain members of the Armed Forces Reserves may be excused; *such students should note, however, that excuses are not granted automatically*; at the time of registration they must be prepared to present evidence of active duty to the Professor of Air Science. If they elect to enroll in Air Force-ROTC courses, they may drop them from their schedules only under the rules governing all other University courses. (A SPECIAL NOTE TO RESERVISTS: members of the Armed Forces Reserves may be excused from the Basic Course only if they have served a period of extended active military duty. Reservists who have served six months active duty under the provisions of the Reserve Forces Act of 1955, although not considered veterans, may be excused from the Basic Course with the approval of the Professor of Air Science. They are cautioned, however, that they must enroll in the Basic Course if they wish to be eligible for consideration for the Advanced Course. Air Force-ROTC training is accepted on a year-for-year basis in fulfilling reserve training requirements prescribed in the Act of 1955.)

THE ADVANCED COURSE. Cadets are selected for the Advanced Course only when they complete the Basic Course, normally at the end of their sophomore year. No student who has been excused from the Basic Course, for whatever reason, will be considered for the Advanced Course. Because all cadets who desire to enroll in the Advanced Course cannot be accommodated, the enrollment is determined by competition based upon physical qualifications, leadership potential, scholastic standing, and recommenda-

tions of instructors and tactical officers. Cadets chosen for the Advanced Course will be required to attend a summer training unit for a period of four weeks between their junior and senior years. Senior cadets enrolled under Category I (Pilot) are required to pursue a flight training program including 36½ hours of instruction in single-engine training type aircraft conducted by a civilian flying school selected by the University.

AIR FORCE COMMISSIONS. To secure an ROTC commission in the United States Air Force, the cadet must (1) complete the four-year course of instruction or have credit in lieu of portions of the training; (2) complete a summer training unit; (3) secure a baccalaureate degree from the University; and (4) be physically qualified.

MILITARY DEFERMENTS: Military deferment for an Air Force-ROTC cadet is based upon his scholastic standing, his potential for leadership, and his physical examination status. Normally a deferment recommendation is not submitted until the student has enrolled in his second semester of Air Force-ROTC and the Department of Air Science is able to determine whether or not his scholastic standing is high enough to warrant a deferment. Deferments once granted remain in effect as long as the cadet remains in good standing and until he receives his degree and commission. Some reasons for not recommending or for withdrawing a deferment are (1) poor scholastic record, (2) lack of military aptitude, (3) lack of leadership potential, (4) excessive absences, (5) withdrawal from the University, and (6) physical reasons.

PARADES AND REVIEWS. All cadets are required to participate in the Veterans' Day parade and in a review at the homecoming football game.

UNIFORM DEPOSIT. A \$15.00 uniform and textbook deposit is required of all cadets. Deposits are made in the office of the Business Manager of the University prior to enrollment. All items lost or damaged must be paid for by the student concerned. When all items are turned in, the deposit is returned.

THE EVENING DIVISION

CALVIN MOORMAN STREET, B.S., M.S., Ed.D., *Director*
Room 207, Administration Building

THE Evening Division offers courses in each of the three undergraduate schools of the University. By providing such college courses in the evening this division aims at fulfilling several educational needs not met by the regular day program. Credit courses offered by television, on WKNO-TV, are under the supervision of The Evening Division.

A major objective is to provide instruction leading to baccalaureate degrees for those who, for a variety of reasons, are not able to attend during the day. In a large measure this is simply an extension of the day program into the evening hours. Regular courses are offered and residence credit is granted.

In addition, The Evening Division provides (a) formal courses for students already holding college degrees but desirous of further training; (b) adult vocational-technical training for those seeking upgrading or change in employment; (c) basic lower-division and pre-professional programs for those preparing to enter professional schools; and (d) an extended general education for those interested in increasing their civic and social competence.

Admission requirements for The Evening Division are the same as those for the regular day program; they are outlined on page 48. Standards of instruction and student performance are maintained at the same level established for the day program.

For students who do not desire to earn credit toward a degree, certain courses are available on a non-credit basis; students enrolled for no credit do the same classwork as the regular students but do not receive a grade or credit at the completion of the course.

Fees in The Evening Division, for both part-time and full-time students, are the same as those in the day program; see page 54 for the details. Students may arrange their schedules to take courses in both the day and evening programs without additional cost.

Inquiries should be addressed to the director of The Evening Division.

THE EXTENSION DIVISION

ELLERY EARL CRADER, B.S., M.A., Ph.D., *Director*
Room 264, Administration Building

THE Extension Division of Memphis State University is the official avenue through which services of the University are extended to areas off the campus. Both undergraduate and graduate courses are given at centers within the state where suitable advance arrangements are made. The subject matter of the extension courses is the same as that of courses taught on the campus, and grades received in these courses have the same quality value as do grades received in courses taught at the University. Regularly employed staff members of the University teach extension courses.

Candidates for degrees at Memphis State University may take a limited amount of work through the Extension Division; regulations governing the use of extension credit will be found on page 71.

Where circumstances justify, the Extension Division attempts to provide various types of help to organized groups within the University's service area. This assistance may take the form of such activities as conferences, public addresses, consultative service, and other types of school and community aid. Regularly employed staff members of the University are available for this service.

To the end that the Extension Division may continue to improve and expand its services to the people of the state, correspondence is invited with groups or individuals who are interested in any phase of its activities. Please address all inquiries and suggestions to the director of The Extension Division.

THE SUMMER SESSION

HEBER ELIOT RUMBLE, B.S., M.A., Ph.D., *Director*
Room 200, Administration Building

THE Summer Session consists of two terms of approximately six weeks each and offers accelerated courses in all schools and departments of the University. Students may earn twelve semester hours of graduate credit or fourteen semester hours of undergraduate credit during the summer, with a maximum of six semester hours per term for graduate students and seven semester hours per term for undergraduate students.

Applicants for admission to The Summer Session must meet all admission requirements of the University except that a transfer student who plans to attend Memphis State University *only* in The Summer Session need not submit complete transcripts from schools previously attended; he should request the registrar of the last college attended to mail a statement of good standing to the Registrar; this statement should include the student's classification.

The schedule of fees for The Summer Session is outlined on page 54.

The *Bulletin* of The Summer Session, containing the schedule of classes and information concerning registration procedures, fees, special events, etc., is issued in April of each year. Copies are available in the offices of the Dean of Admissions and the director of The Summer Session.

Part Eight:

DESCRIPTION
OF
COURSES

DESCRIPTION OF COURSES

THE section which follows contains an alphabetical listing of all of the departments in the University. Each department entry contains a list of the faculty members in that department and a description of all course offerings. The official course title appears in bold-face type following the course number. The figures in parentheses after the description of a course denote the number of semester hours of credit for that course. If the credit is variable, to be fixed in consultation with the instructor, that fact is indicated by the minimum and maximum credit, as Biology 400 (2 to 4).

Courses are numbered according to the following system:

- 100-199 *Courses primarily for freshmen*
- 200-299 *Courses primarily for sophomores*
- 300-399 *Courses primarily for juniors*
- 400-499 *Courses primarily for seniors and for which graduate credit is not offered*
- G400-G499 *Senior courses open to graduate students*
- S500-S599 *Graduate courses open to seniors within 36 semester hours of graduation*
- 500-599 *Courses open only to graduate students*

Course numbers have no reference to the semester in which the courses are taught.

The Schedule of Classes is published a few weeks prior to the opening of each semester and The Summer Session. It contains a listing of the specific courses to be offered, with the time, place, and instructor in charge of each section. It also contains special announcements concerning registration procedures. Copies are available in the office of the Dean of Admissions.

ACCOUNTANCY

PROFESSOR JAMES THOMAS THOMPSON, *Chairman*
Room 103, *The School of Business Administration Building*

PROFESSORS CRAWFORD and SPICELAND

ASSISTANT PROFESSORS L. W. CURBO, FITZPATRICK, PEEPLES, and WRAY
MR. R. S. CURBO

Requirements for the major and minor in accountancy are listed on page 109.

- 201. Fundamentals of Accounting I. (3).**
Basic principles, journalizing and posting, the accounting cycle, accruals and deferments, valuation accounts, special journals including the voucher register. Both semesters.
- 202. Fundamentals of Accounting II. (3).**
Payrolls, taxation, partnership, corporations, further applications of accounting theory. Both semesters. PREREQUISITE: Accounting 201.
- 272. Accounting Laboratory. (1).**
The working of a practice set involving current accounting practice. Both semesters. PREREQUISITE: Accounting 201.
- 311. Intermediate Accounting I. (3).**
Accounting records, end-of-period procedure, corrections of prior periods, accounting statements, comparative statements, working capital, miscellaneous ratios, profit and loss analysis, corporations. Both semesters. PREREQUISITE: Accounting 202.
- 312. Intermediate Accounting II. (3).**
Cash and receivables, inventories, tangible operating assets, intangibles, investments, liabilities, reserves and valuation accounts, net income determination, statement of source and application of funds. Both semesters. PREREQUISITE: Accounting 311.
- 321. Financial Statement Analysis. (3).**
Nature and scope of financial reports, business ratios, effectiveness of analysis techniques, interpretation of financial reports, study of typical statements. Fall semester. PREREQUISITE: Accounting 202.
- 324. Internal Auditing. (3).**
Review and appraisal of internal accounting procedures of businesses, verification and analysis of financial and operating reports, function and organization of the internal auditing department. Spring semester. PREREQUISITE: Accounting 312.
- 331. Cost Accounting I. (3).**
Material inventory records, inventory evaluation, accounting for labor, distribution of manufacturing costs, introduction to process cost. Both semesters. PREREQUISITE: Accounting 202.
- 332. Cost Accounting II. (3)**
Process costs, estimated costs, standard costs, budgets. Both semesters. PREREQUISITE: Accounting 331.

- 421. Advanced Accounting I. (3).**
Partnerships, consignments, installment sales, insurance, statement of affairs, receiver's accounts, statement of realization and liquidation, annuities, estates and trusts. Fall Semester. PREREQUISITE: Accounting 312.
- 422. Advanced Accounting II. (3).**
Agencies, home and branch offices, consolidations, mergers, foreign exchange. Spring semester. PREREQUISITE: Accounting 312.
- 424. Auditing I. (3).**
Ethics in accounting practices, auditing standards and procedures, programs of audit of various accounts, construction and indexing of various papers, reports to clients. Fall semester. PREREQUISITES: Accounting 312, 332.
- 425. Auditing II. (3).**
Application of auditing principles to verification of financial statements, preparation of reports, case studies applicable to specific industries, current trends. A practice audit is carried out. Spring semester. PREREQUISITE: Accounting 424.
- 445. Accounting Systems. (3).**
Problems involved in designing accounting installations for various types of business, including the designing of clerical departments and planning of required mechanical devices. Spring semester. PREREQUISITE: Accounting 312.
- 446. Controllership. (3).**
Training in the field of administrative accounting, duties and functions of the controller, organization of the controller's office. Fall semester. PREREQUISITE: Accounting 332.
- 451. Federal Income Tax I. (3).**
Regulations pertaining to individuals and partnerships. Fall semester. PREREQUISITE: Accounting 312, or permission of the instructor.
- 452. Federal Income Tax II. (3).**
Laws and regulations for corporations, estates, and fiduciaries. Spring semester. PREREQUISITE: Accounting 451.
- 454. Governmental Accounting. (3).**
Accounting theory and practice applicable to Federal, state, and local government; and to nonprofit institutions; budgetary control; control, classification, and use of funds; financial statements and reports. Fall semester. PREREQUISITE: Accounting 312.

(The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)

- S-511. Accounting Theory I. (3).**
A study of the broad aspects and objectives of accounting with emphasis on generally accepted accounting principles, modern accounting trends, and contemporary controversial topics through a study of current releases of the American Institute of Certified Public Accountants, the American Accounting Association, and other research related to changing accounting concepts. PREREQUISITE: Accounting 422 or permission of the instructor.

- S-512. Accounting Theory II. (3).**
A further study of the development of accounting theory and the influence of professional accounting societies and regulatory agencies upon the accounting profession. **PREREQUISITE:** Accounting S-511.
- S-531. Standard Cost. (3).**
Budgets, determination of standards, variances and their functions, cost reports, profit projecting. **PREREQUISITE:** Accounting 332.
- S-581. Internship in Accounting. (3).**
Seniors majoring in public accounting, after receiving approval of the accounting faculty, are placed in offices of cooperating public accounting firms to receive on-the-job training under the direct supervision of a certified public accountant and the general supervision of the University accounting staff. Credit is allowed upon acceptance of report of work done, verified by supervising accountant, and completion of a qualifying examination. Minimum time: 500 hours. Both semesters.
- S-583. Current Accounting Problems. (3).**
Review of C.P.A. Examination, including theory of accounts, accounting practice, and auditing. Open to persons with substantial accounting backgrounds, and on permission of instructor. Spring semester.

GRADUATE COURSES IN ACCOUNTANCY

(Numbers prefixed with "G" identify undergraduate courses described in the preceding section for which graduate credit may be given. For further details of the graduate program see the Bulletin of The Graduate School.)

- G-421. Advanced Accounting I. (3).**
G-422. Advanced Accounting II. (3).
G-424. Auditing I. (3).
G-425. Auditing II. (3).
G-445. Accounting Systems. (3).
G-446. Controllership. (3).
G-451. Federal Income Tax I. (3).
G-452. Federal Income Tax II. (3).
G-454. Governmental Accounting. (3).
511. Accounting Theory I. (3).
512. Accounting Theory II. (3).
531. Standard Cost. (3).
581. Internship in Accounting. (3).
583. Current Accounting Problems. (3).
591. Problems in Accounting. (1 to 6).

AIR SCIENCE

LIEUTENANT COLONEL GEORGE L. ANDERSON, *Professor of Air Science*
Room B-11, Jones Hall

ASSISTANT PROFESSORS: LIEUTENANT COLONEL JONES; MAJOR JESSEN,
MAJOR PHILLIPS, MAJOR TERRY, and MAJOR WOOLLARD;
CAPTAIN HATHAWAY and CAPTAIN SMITH

Details of the Air Science program (including commissions, required courses, military deferments, etc.) will be found on page 127.

- 111. Foundations of Aerospace Power. (1).**
Orientation to Air Force-ROTC, basic military leadership principles and practices, and participation in military drills and ceremonies.
- 112. Foundations of Aerospace Power. (2).**
Elements of air power, basic aeronautical science, and the organization and operation of the military arm of the federal government.
- 211. Fundamentals of Aerospace Weapon Systems. (2).**
Air power and the development of aerial warfare, including the employment of air forces, weapons systems, targets, delivery vehicles, bases, and operations.
- 212. Fundamentals of Aerospace Weapon Systems. (1).**
Practical leadership activities involving small groups; moral foundations of leadership; participation in military drills and ceremonies.
- 311. Air Force Officer Development. (3).**
The knowledge and skills required of a junior officer in the Air Force with special emphasis on staff duties and leadership, including Air Force leadership doctrine, staff organization and functions, communicating, instructing, problem solving techniques, leadership principles and practices, and the military justice system.
- 312. Air Force Officer Development. (3).**
A continuation of Air Science 311.
- 411. Global Relations. (3).**
A study of global relations of special concern to the Air Force officer, including geography, international relations, weather, navigation, and briefing for commissioned service.
(Cadets will meet the requirements for this course by enrolling in Geography 425, Political Geography, which has been approved as a part of the Air-Force-ROTC curriculum.)
- 412. Global Relations. (3).**
A continuation of Air Science 411.
(Cadets will meet the requirements for this course by enrolling in Political Science 331, International Politics, which has been approved as a part of the Air Force-ROTC curriculum.)

ANTHROPOLOGY

(See SOCIOLOGY AND ANTHROPOLOGY)

ART

PROFESSOR DANA DOANE JOHNSON, *Chairman*
Room 310, Jones Hall

ASSOCIATE PROFESSORS ALLGOOD and GOVAN

ASSISTANT PROFESSORS DAILEY, GELINAS, and NAVE

MRS. DAILEY, MRS. GOVAN, MR. MADDEN, MRS. RICHARDSON,
and MRS. ROSS

Requirements for the major and minor in art are listed on page 97; the program for the Bachelor of Fine Arts degree is outlined on page 92.

- 111. Art Appreciation. (3).**
An introduction to the fundamental principles of the fine arts, aimed at providing an understanding of art products and processes as a basis for judgment and enjoyment of all types of art expression.
- 113. Basic Lettering. (3).**
Fundamental letter construction, the history of alphabets, and the effects of tools and materials upon individual letter forms, with practical problems in hand lettering in both pen and brush techniques.
Two lecture, two laboratory hours per week.
- 115. Drawing I. (3).**
An introduction to the materials and techniques of basic drawing.
Two lecture, two laboratory hours per week.
- 116. Drawing II. (3).**
A continuation of Art 115, designed to increase the visual scope of the student and to strengthen his technical skill.
Two lecture, two laboratory hours per week.
- 121. Design I. (3).**
An introduction to design as a basic factor in creative expression.
Two lecture, two laboratory hours per week.
- 122. Design II. (3).**
A continuation of Art 121 with emphasis on color fundamentals.
Two lecture, two laboratory hours per week.
- 213. Drawing III. (3).**
Analysis of the structure of the human figure with emphasis on contour, gesture, and volume.
Two lecture, two laboratory hours per week.
- 214. Drawing IV. (3).**
A continuation of Art 213, devoted to a study of the head, feet, and hands; work done from model.
Two lecture, two laboratory hours per week.
- 215. Design III. (3).**
An advanced course in the area of design, with particular emphasis on three-dimensional designing.
Two lecture, two laboratory hours per week.
- 216. Design IV. (3).**
A continuation of Art 215 with special attention given to experimentation.
Two lecture, two laboratory hours per week.
- 241. Graphics I. (3).**
An introduction to the graphic arts, primarily concerned with the planning and execution of woodcuts.
Two lecture, two laboratory hours per week.
- 242. Graphics II. (3).**
A continuation of Art 241 with emphasis on the intaglio processes.
Two lecture, two laboratory hours per week.
- 301. Art Education I. (3).**
An introductory course in the development of skills and methods in the school art program, with emphasis on materials and ideas important to children's art expression and growth.

- 302. Art Education II. (3).**
A continuation of Art 301, emphasizing techniques and methods with special attention given to practical problems in the school art program.
- 307. Drawing V. (3).**
An advanced course in drawing procedures and techniques. **PREREQUISITES:** Drawing I, II, III, and IV, or permission of the instructor.
One lecture, four laboratory hours per week.
- 308. Drawing VI. (3).**
A continuation of Art 307. **PREREQUISITES:** Drawing I, II, III, IV, and V, or permission of the instructor.
One lecture, four laboratory hours per week.
- 313. Art in America. (3).**
The development of American art including architecture, sculpture, painting, and the minor arts from pre-Columbian time to the present.
- 315. Advertising Design I. (3).**
An introduction to the methods and techniques of advertising layout, with practical problems involving rough, presentation, and finished art work.
Two lecture, two laboratory hours per week.
- 316. Advertising Design II. (3).**
A continuation of Art 315, offering further study in the technique of newspaper, magazine, and direct-mail layout.
Two lecture, two laboratory hours per week.
- 317 Interior Design I. (3).**
A survey of the broad field of interior design and some of its underlying principles.
Two lecture, two laboratory hours per week.
- 318. Interior Design II. (3).**
A continuation of Art 317, offering further study in interior organization and the designing of residential and commercial interiors.
Two lecture, two laboratory hours per week.
- 323. Package Design. (3).**
The designing of packages and other types of industrial containers, including the preparation of trademark designs, dummy cartons, and package renderings.
Two lecture, two laboratory hours per week.
- 331. Watercolor I. (3).**
Theory and practice in painting to develop the student's skill in handling the medium of transparent watercolor.
One lecture, four laboratory hours per week.
- 332. Watercolor II. (3).**
A continuation of Art 332 with emphasis on the further development of techniques.
One lecture, four laboratory hours per week.
- 333. Oil I. (3).**
A preliminary course in the theory and practice of oil painting.
One lecture, four laboratory hours per week.

- 334. Oil II. (3).**
A continuation of Art 333 with special attention given to the essentials of still-life, landscape, and portrait painting.
One lecture, four laboratory hours per week.
- 335. Graphics III. (3).**
A continued study in the graphic arts with further emphasis on wood-cut and etching. PREREQUISITES: Graphics I and II, or permission of the instructor.
One lecture, four laboratory hours per week.
- 336. Graphics IV. (3).**
A continuation of Art 335 with emphasis turning to personal expression. PREREQUISITES: Graphics I, II, and III, or permission of the instructor.
One lecture, four laboratory hours per week.
- 337. Art History I. (3).**
A study of architecture, sculpture, painting, and the minor arts from prehistoric times to the fall of the Roman Empire, including Egyptian, Sumerian, Greek, and Roman art.
- 338. Art History II. (3).**
A continuation of Art 337, offering a study of the development of the visual arts during the medieval period (early Christian, Romanesque, and Gothic), and their use by man as social, cultural, and educational forces.
- 339. Ceramics I. (3).**
An introductory course in pottery-making, including hand forming and production processes using clays, plaster, and cements.
Two lecture, two laboratory hours per week.
- 340. Ceramics II. (3).**
A continuation of Art 339, offering further study in pottery-making and glazing with emphasis on design.
Two lecture, two laboratory hours per week.
- 361. Arts and Crafts I. (3).**
Introductory arts and crafts, including leather and metal craft, weaving, and ceramics, as they relate to educational and recreational areas.
- 362. Arts and Crafts II. (3).**
A continuation of Art 361 offering further experiences in the areas of leather and metal craft, weaving, and ceramics.
- 407. Study and Travel in Art (3 or 6).**
Travel to important art centers of Europe and the Orient and specialized study under the direction of a faculty member of the Department of Art.
- 409. Oriental Art. (3).**
A general survey of Oriental art from the earliest times to the present, dealing specifically with Persian, Indian, Chinese, and Japanese art.
- 411. Art History III. (3).**
Western art and architecture from the medieval period through the Renaissance and post-Renaissance periods.

- 412. Art History IV. (3).**
A survey of nineteenth- and twentieth-century art, including all important movements in modern art from Neo-Classicism to the present.
- 415. Workshop in Art I. (3).**
The study of specific art problems as they apply to the individual student with emphasis on basic art concepts and creative experience. **PREREQUISITE:** permission of the instructor.
- 416. Workshop in Art II. (3).**
A continuation of Art 415, providing study of problems appropriate to the need of the individual student. **PREREQUISITE:** permission of the instructor.
- 421. Illustration I. (3).**
A survey of the many areas requiring the services of an illustrator and including the preparation of book, magazine, advertising, and television illustrations.
Two lecture, two laboratory hours per week.
- 422. Illustration II. (3).**
A continuation of Art 421, dealing with analysis of fine art techniques of drawing and painting as they apply to commercial illustration.
Two lecture, two laboratory hours per week.
- 423. Advertising Design III. (3).**
Advanced problems in the fields of advertising and merchandising design. **PREREQUISITES:** Advertising Design I and II or permission of the instructor.
Two lecture, two laboratory hours per week.
- 424. Advertising Design IV. (3).**
A continuation of Art 423 with special attention given to individual problems and personal approach. **PREREQUISITES:** Advertising Design I, II, and III, or permission of the instructor.
Two lecture, two laboratory hours per week.
- 431. Watercolor III. (3).**
Theory and practice in painting to develop the student's ability to handle opaque watercolor media such as casein and gouache.
One lecture, four laboratory hours per week.
- 432. Watercolor IV. (3).**
A continuation of Art 431 with emphasis on the further development of techniques.
One lecture, four laboratory hours per week.
- 433. Oil III. (3).**
A consideration of advanced problems in oil painting, presupposing that the student has mastered basic techniques and is ready for a more experimental approach to the subject. **PREREQUISITES:** Oil I and II, or the permission of the instructor.
One lecture, four laboratory hours per week.
- 434. Oil IV. (3).**
A continuation of Art 433 with emphasis on the development of a personal style. **PREREQUISITES:** Oil I, II and III, or permission of the instructor.
One lecture, four laboratory hours per week.

441. Graphics V. (3).

Specialization in one of two graphic media. Students are encouraged to develop a personal imagery and the necessary technical abilities. **PREREQUISITES:** Graphics I, II, III and IV, or permission of the instructor.

One lecture, four laboratory hours per week.

442. Graphics VI. (3).

The culminating course in the graphic arts in which work may be done in woodcut, etching, or lithography. **PREREQUISITES:** Graphics I, II, III, IV and V, or permission of the instructor.

One lecture, four laboratory hours per week.

461. Art Seminar. (3).

Original research in the student's area of concentration, the extent of the project to be approved by the art faculty.

BIOLOGY

PROFESSOR CARL DEE BROWN, *Chairman*
Room 203, Manning Hall

PROFESSOR RUDOLPH

ASSOCIATE PROFESSORS FOLDEN, MCGOWAN, and PARCHMAN

ASSISTANT PROFESSORS HOWELL, SMITH, and WILDER

MRS. ELEAZER, MR. FEISAL, MR. SIMONTON, MR. WARMBROD
and Mrs. RAPP

Requirements for the major and minor in biology are listed on page 97. Information concerning pre-professional curricula will be found on page 78. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 95.

111. Introduction to Biology. (3).

An introductory survey of biology, with emphasis on the animal kingdom, designed for non-science majors. Credit in this course is not acceptable for the biology major or in the pre-professional curricula.

Two lecture, two laboratory hours per week.

112. Introduction to Biology. (3).

A continuation of Biology 111, with emphasis on the plant kingdom. Credit in this course is not acceptable for the biology major or in the pre-professional curricula. **PREREQUISITE:** Biology 111 or the equivalent.

Two lecture, two laboratory hours per week.

121. Anatomy and Physiology. (3).

A detailed study of the structure and functions of the human organism. This course is open only to student nurses and will not satisfy any part of the science requirement for the bachelor's degree.

Two lecture, two laboratory hours per week.

122. Anatomy and Physiology. (3).

A continuation of Biology 121. This course is open only to student nurses and will not satisfy any part of the science requirement for

the bachelor's degree. PREREQUISITE: Biology 121 or the equivalent.

Two lecture, two laboratory hours per week.

130. Microbiology. (3).

A course designed to meet the requirements of student nurses and majors in the Department of Health and Physical Education.

131. Human Anatomy and Physiology. (3).

A study of the structure and operation of the human organism, designed primarily for majors in the Department of Health and Physical Education.

Two lecture, two laboratory hours per week.

132. Human Anatomy and Physiology. (3).

A continuation of Biology 131, designed primarily for majors in the Department of Health and Physical Education. PREREQUISITE: Biology 131 or the equivalent.

Two lecture, two laboratory hours per week.

141. General Plant Biology. (4).

A survey of the plant kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

Three lecture, two laboratory hours per week.

142. General Animal Biology. (5).

A survey of the animal kingdom considering distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms.

Three lecture, four laboratory hours per week.

300. Genetics. (4).

A study of the principles of heredity, including laboratory experiments in *Drosophila* breeding. PREREQUISITES: Biology 141 and 142, or the equivalent.

Two lecture, four laboratory hours per week.

301. Heredity. (3).

The principles of heredity with applications to human problems, designed for non-science majors and recommended for students who desire a better understanding of heredity and eugenics. Not acceptable as credit toward a biology major.

Three lecture-discussion hours per week.

302. General Bacteriology. (4).

A general course dealing with the fundamentals of bacteriology. PREREQUISITE: one year of biology or one year of chemistry.

Two lecture, four laboratory hours per week.

303. Nature Study and Bio-Conservation. (3).

Designed to stimulate an interest in living things in their environment and to encourage the use of field work in teaching nature study and conservation in the elementary school.

Two lecture, two laboratory or field hours per week.

304. Field Botany. (4).

Observation, classification, and mounting of representative specimens

of flowering plants in the Memphis area. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

305. Biology of the Non-vascular Plants. (4).

Classification, distribution, structure, physiology, and economic importance of the thallophytes and bryophytes. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory and field hours per week.

311. General Entomology. (4).

An introduction to the insects with emphasis on morphology, physiology, development, behavior, and ecology. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

312. General Entomology. (4).

A continuation of Biology 311, with emphasis on classification of the insects, the interpretation and use of keys, and the preparation of a representative collection. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, four laboratory hours per week.

315. History of Biology. (3).

The development of the science of biology, considering the work of outstanding biologists and the influence of their contributions. PREREQUISITE: 8 semester hours in biology.

330. The Relation of Microorganisms to Man. (3).

The nature and activities of the microorganisms as they affect the welfare of man; some time is devoted to the pathogens—etiology and transmission of diseases, immunity, and other factors bearing upon the health of the individual and the community.

331. Comparative Anatomy of Vertebrates. (5).

The origin, development, structure, and functions of the organs and systems of selected forms of vertebrates. PREREQUISITE: Biology 142 or the equivalent.

Two lecture, six laboratory hours per week.

332. Vertebrate Embryology. (4).

The development of selected vertebrate embryos from the fertilized egg cell. PREREQUISITE: Biology 331 or the equivalent.

Two lecture, four laboratory hours per week.

341. Physiology. (4).

A study of the essential functions of living organisms, considering necessary structural relationships and emphasizing the normal function of the human body. PREREQUISITES: Biology 142 (or the equivalent) and one year of chemistry.

Three lecture, two laboratory hours per week.

344. The Physiology of Exercise. (3).

The anatomy and physiology of muscular movement. PREREQUISITES: Biology 131 and 132 (or the equivalent).

Three lecture-demonstration hours per week.

352. General Ecology. (3).

The study of plant and animal communities in relation to their en-

vironment. PREREQUISITES: Biology 141 and 142, or the equivalent.

Two lecture, two laboratory and field hours per week.

361. Parasitology. (4).

Distribution, morphology, life history, economic importance, and control of some of the parasites of man and domestic animals; Protozoa through Platyhelminthes.

Two lecture, four laboratory hours per week.

362. Medical Entomology. (4).

Distribution, morphology, life history, economic importance, and control of some of the insects and other arthropods which are parasites or serve as vectors for disease-producing organisms.

Two lecture, four laboratory hours per week.

400. Problems in Biology. (2 to 4).

Individual problems pursued by qualified students under supervision of a member of the biology faculty, designed to develop interest and proficiency in biological research.

401. Plant Morphology. (4).

Comparative studies of general structure of lower plants, exclusive of bacteria and related forms, through the Bryophytes. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

402. Plant Morphology. (4).

A continuation of Biology 401, considering the vascular plants. PREREQUISITE: Biology 141 or the equivalent.

Two lecture, four laboratory hours per week.

403. Vertebrate Histology. (4).

Microscopic study of normal tissues and organs of the vertebrate body.

Two lecture, four laboratory hours per week.

404. Histological Technique. (3).

Methods of preparing animal tissues for microscopic study; theories of staining and preparation of permanent mounts. PREREQUISITE: Biology 142 or consent of the instructor.

One lecture, four laboratory hours per week.

405. Sanitary Bacteriology. (4).

A study of microorganisms in relation to water and sewage; disinfection and disinfectants. PREREQUISITE: Biology 302 or the equivalent.

410. Organic Development. (3).

The consideration of theoretical and scientific evidences concerning the origin, development, and establishment of the major groups of living and extinct animals and plants. Recommended for biology majors and general students as well. PREREQUISITE: one year of biology.

415. Bacterial Physiology. (4).

A survey of bacterial physiology, including growth, nutrition, biosynthesis, and adaptation. PREREQUISITES: Biology 302 (or the equivalent) and one year of chemistry.

Three lecture, two laboratory hours per week.

- 420. Plant Taxonomy. (4).**
Principles of plant taxonomy, with special attention given to the classification of selected vascular plant families. PREREQUISITE: permission of the instructor.
Lectures, laboratory hours, and field trips.
- 425. Plant Physiology. (4).**
Principles of physiology and their application to the living organism, with emphasis on higher plants. PREREQUISITE: permission of the instructor.
- 430. Invertebrate Zoology. (4).**
The invertebrate animals, exclusive of the insects, with special attention given to phylogeny, organology, and taxonomy. PREREQUISITE: Biology 142 or the equivalent.
Two lecture, four laboratory hours per week.
- 440. Field Zoology. (4).**
Field study of the identification, life history, and habitat of the animals of this locality; birds and insects are omitted. PREREQUISITE: 8 semester hours of biology, including Biology 142 or the equivalent.
Two lecture, four laboratory hours per week.
- 450. Cellular Physiology. (4).**
A study of the fundamental unit of all living things, considering the basic activities of cells: nutrition, adaptation, growth, and reproduction. PREREQUISITE: Biology 341 or the equivalent.
Two lecture, four laboratory hours per week.
- 460. Comparative Neurology. (4).**
A detailed study of the nervous system of selected animals with emphasis on the vertebrates. PREREQUISITE: permission of the instructor.
Two lecture, four laboratory hours per week.
- S-530. Modern Biological Methods. (2).**
A consideration of recent development in biological techniques which may be applied to the study of living organisms.
- S-560. Protozoology. (4).**
A survey of the free living and parasitic protozoa, with consideration given to structure, taxonomy, habitat, and life history. PREREQUISITE: Biology 142 or the equivalent.
Two lecture, four laboratory hours per week

GRADUATE COURSES IN BIOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For description of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

- G-401. Plant Morphology. (4).**
G-402. Plant Morphology. (4).
G-403. Vertebrate Histology. (4).
G-404. Histological Technique. (3).
G-405. Sanitary Bacteriology. (4).
G-415. Bacterial Physiology. (4).
G-420. Plant Taxonomy. (4).
G-425. Plant Physiology. (4).
G-430. Invertebrate Zoology. (4).

- G-440. Field Zoology. (4).
- G-450. Cellular Physiology. (4).
- G-460. Comparative Neurology. (4).
- S-530. Modern Biological Methods. (2).
- S-560. Protozoology. (4).
- 502-I. Field Studies in Plant Biology. (3).
- 510. Seminar in Biological Literature. (2).
- 512. Systematic Entomology. (3).
- 590. Research. (2 to 4).
- 591. Special Problems. (4).
- 593. Thesis. (6).

CHEMISTRY

(See PHYSICAL SCIENCES)

CLASSICAL LANGUAGES

PROFESSOR ROY E. WATKINS, *Chairman*
Room 215, Jones Hall

Requirements for the major and minor in Latin are listed on page 97.
Details of the foreign language requirements for the baccalaureate degrees will be found on page 88.

CLASSICS

323. Latin and Greek Etymology. (3).

Origin and derivation of words, especially those used in medicine and science. This course is given in English and is open to all students without prerequisite. It may not be used to satisfy any part of the foreign language requirement nor does it apply toward a major in classical languages.

GREEK

111. Elementary Greek. (3).

Elements of Greek grammar and syntax; practice in reading and translation.

112. Elementary Greek. (3).

Completion of basic grammar and syntax, with additional readings.

211. Xenophon. (3).

Reading and interpretation of Xenophon's *Anabasis*.

212. Homer. (3).

Reading and interpretation of Book IX of Homer's *Odyssey*.

311. Herodotus' History. (3).

Reading and analysis of Books VI-VIII of Herodotus' *History*.

321. Euripides. (3).

Reading and analysis of the dramas *Alcestis* and *Medea*.

LATIN

111. Elementary Latin. (3).

Elements of grammar; practice in Latin composition and translation.

112. Elementary Latin. (3).

Completion of elementary Latin grammar, with additional readings.

211. **Caesar.** (3).
Reading and analysis of Caesar's *Gallic Wars*, Books I, IV, V.
212. **Cicero.** (3).
Reading and analysis of selected orations of Cicero.
311. **Livy.** (3).
Reading and analysis of Livy's *History*, Books XXI, XXII.
312. **Horace's Satires.** (3).
321. **Lucretius.** (3).
Reading and analysis of Roman philosophy in Lucretius' *De Rerum Natura*, Books I and III.
351. **Ovid.** (3).
Reading and analysis of myths in Ovid's *Metamorphoses*.
352. **Vergil.** (3).
Reading and analysis of the *Aeneid*.
361. **Cicero.** (3).
Reading and analysis of *De Amicitia* and *De Senectute*.
362. **Pliny, Martial.** (3).
Reading and analysis of the *Letters* of Pliny and the *Epigrams* of Martial.
411. **Catullus, Horace.** (3).
Reading and analysis of Catullus' *Lyric Poems* and Horace's *Odes*.
413. **Roman Letter Writers.** (3).
Reading and analysis of Cicero's *Letters*.
421. **Roman Satire.** (3).
Reading and analysis of Juvenal's *Satires*.

CURRICULUM AND INSTRUCTION

PROFESSOR HEBER ELIOT RUMBLE, *Chairman*
Room 200, Administration Building

PROFESSORS JOHNSON and RICHARDSON

ASSOCIATE PROFESSORS BROWNLEE, HAYNES, KRAUSE, NOTHERN,
SMITH, and UNDERWOOD

ASSISTANT PROFESSORS COBB, MOORE, and POWELL

MRS. ALGEE, MR. EUBANK, MRS. HENRY, MISS KEASLER,
MRS. RICHARDSON, and MRS. SANDS

MISS BEEBE, MR. COUNCE, MR. GRIESBECK, MISS HAMLIN, MISS
MEASELLS, MISS NEWBELL, MR. PERRY, MR. RUDMAN, MISS
SEVEDGE, MR. WOODY, and MRS. WOOLNER

The Department of Curriculum and Instruction offers majors in elementary education and secondary education and minors in elementary education, library service, secondary education, and special education; the requirements are listed on page 119.

The department offers courses in three areas: education, library service, and special education.

EDUCATION

- 101. Introduction to Education. (3).**
An overview of the whole field of education, with emphasis on those things a prospective teacher should know at the beginning of his professional preparation.
- 102. Human Growth and Development. (3).**
An attempt to help the student understand child nature and development, to appreciate the fact that all behavior is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community.
- 201. The Psychology of Learning. (3).**
The psychology of learning as applied to activities under the guidance of the school.
- 202. Routine School Management and Teaching Aids. (3).**
Routine school management; the importance and use of records and reports, teacher-made and standardized tests, audio-visual materials, and other sensory aids.
- 325. Observation, Participation, and Practice in the Elementary School. (3).**
A preparatory course for directed student teaching in the elementary school.
- 335. Driver Education and Traffic Safety. (Same as Industrial Arts 335). (3).**
Study and practice in the preparation of instructional materials dealing with traffic and safety; care and upkeep of the automobile, and behind-the-wheel instruction. Open only to students whose major or minor is in the Department of Curriculum and Instruction.
Two lecture, two laboratory hours per week.
- 351. Special Problems in Instruction. (1 to 3).**
Individual investigation in the area of instruction. PREREQUISITE: experience as a teacher or satisfactory evidence of being qualified to benefit from such a course.
- 381. Teaching Methods in High School Subjects. (3).**
Emphasis is placed on ways in which learning experiences may be organized to insure effective pupil learning. PREREQUISITES: Education 101, 102, 201, 202.
- 382. Survey of Preschool Education. (3).**
Philosophy and theories of preschool education; physical, emotional, social, and mental development of preschool children; keeping of records; working with parents; selecting equipment and supplies; curriculum content; planning a course of study. PREREQUISITE: Education 101, 102, 201, 202.
- 385. Teaching Methods in Elementary School Language Arts and Social Studies. (3).**
Study and observation of approved techniques for developing good habits of listening, speaking, reading, and writing; analysis of the social problems in which children of the elementary school are interested; units of work will be developed. PREREQUISITES: Education 101, 102, 201, 202, and enrollment in Education 386.

386. Teaching Methods in Elementary School Science and Mathematics. (3).

A study of the natural environment as a child would view it; activities which challenge a child; the mathematical processes required of the elementary school child; reasons for the use of certain methods. **PREREQUISITES:** Education 101, 102, 201, 202, and enrollment in Education 385.

391. Materials and Methods in High School———. (3).

Objectives, content, and grade placement of secondary school subjects; tools of instruction; organization of courses; teaching procedures and practice. **PREREQUISITES:** Education 381 and satisfactory preparation in the subject matter field.

NOTE: Students registering for Education 391 () will suffix one of the letters below to the course number to indicate the subject matter area for which credit is to be given; students may register for Education 391 () more than once, but may not repeat the same subject matter area for credit.

- | | |
|-----------------------------------|-----------------------|
| A. Art | I. Latin |
| B. Biology | J. Mathematics |
| C-a. Vocational business subjects | K. Music |
| C-b. General business subjects | L. Physical Education |
| D. English | M. Physical Science |
| E. French | N. Social Science |
| F. German | O. Spanish |
| G. Home Economics | P. Speech |
| H. Industrial Arts | Q. Health |

391-W Materials and Methods in High School———. (1 or 4).

A student who is unable to schedule a methods course in the subject matter field in which he seeks endorsement may register for Education 391-W provided he can arrange for a one-hour conference per week with the chairman of the department preparing him to meet requirements in his endorsement area. A student enrolling for four semester hours credit in Education 391-W may not receive credit for Education 381.

401. Seminar in World Literacy. (3).

A survey of world literacy programs in the twentieth century, emphasizing techniques used; the development of the Laubach method, with demonstrations and practice in teaching it; the significance of graded literature and the techniques of writing for the new adult reader; tests for readability; the preparation of primers; campaign administration and promotion; and an introduction to linguistics. *This is a concentrated course, offered at announced intervals and to be completed in two weeks.*

411. School and Community Relationships. (3)

The relationship of the school to community agencies concerned with health and safety, government, religion, occupations, extension services, children's organizations, adult education, cultural activities, cooperative movements, etc.; relationship of the community to such school activities as attendance, athletics, lunch, libraries, extra-curricular programs, home study, records and reports, guidance, etc.

- *415. Directed Student Teaching in the Secondary School. (3 to 9).**
Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.
- *416. Directed Student Teaching in the Secondary School. (3 to 6).**
For the student who has completed six semester hours or less of student teaching on the secondary level and desires some additional experience.
- *423. Directed Student Teaching in the Kindergarten. (3 to 6).**
Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.
- *425. Directed Student Teaching in the Elementary School. (3 to 9)**
Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.
- *426. Directed Student Teaching in the Elementary School. (3 to 6).**
For the student who has completed 6 semester hours or less of student teaching in the elementary school and desires some additional experience.
- 429. Workshop for Teachers in the Elementary School. (3 to 6).**
A course designed to meet the needs of in-service teachers by offering an opportunity to work cooperatively on problems which are real to teaching situations and which meet the needs of the individual. **PRE-REQUISITE:** teaching experience and permission of the director of the workshop.
- 431. Workshop in the Improvement of Instruction. (3).**
This course is designed to assist both in-service and prospective teachers to improve the instruction-learning program; attention is given to the purposes of education, classroom learning, motivation of learning, utilization of materials, evaluation of teaching and learning, etc., and to the application of these elements in the several instructional areas of the elementary school and in the particular subject areas of the secondary school.

*Directed student teaching, offered in the Training School at Memphis State University and in cooperating schools in the Memphis and Shelby County school systems, provides opportunities for observation of good teaching practices and for practical teaching experience under the direction of supervising teachers. Applications for student teaching must be filed with the Coordinator of Student Teaching (Room 105, Administration Building) sixty days before the beginning of the term in which the student desires to do his student teaching. Students are expected to do their student teaching in either the fall or spring semester; student teaching, when offered in The Summer Session, is planned for in-service teachers who have had a minimum of one year of teaching experience.

Requirements for enrolling in student teaching are as follows:

1. Classification as a senior or graduate student, and at least one semester of residence at Memphis State University.
2. An overall C average and a C average in education courses.
3. Completion of Education 101, 102, 201, 202, and the two methods courses included in the specialized professional program; enrollment in a methods course concurrent with enrollment in directed student teaching may be approved.
4. Completion of either the elementary or secondary school endorsement requirements with a C average.
5. Approval by the applicant's adviser and by the chairman of the Department of Curriculum and Instruction.

- 432. Workshop in the Administration of Guidance Services. (3).**
This course is designed to assist in-service and prospective teachers and administrators in providing more effective guidance services in grades 1 through 12; particular attention will be given to the planning, organizing, and evaluating of such services as inventory, information, counseling, placement, and follow-up.
- 442. The Teaching of Natural Science in the Elementary School. (3).**
An advanced course in the study of the natural environment as a child would view it, including a survey of suitable equipment and materials for the elementary classroom and limited experience at carrying on experiments at the child's level.
- 443. The Teaching of Mathematics in the Elementary School. (3).**
An advanced course acquainting prospective and experienced teachers with the mathematical processes required of the elementary school child and the reasons why certain methods are used.
- 444. The Teaching of the Social Studies in the Elementary School. (3).**
An analysis of social problems, needs, and interests which are basic to the curriculum of the elementary school child, with emphasis on the role of the social studies and their relationship to the total school program.
- 445. The Teaching of Children's Literature in the Elementary School. (3).**
A course designed to improve the methods of teaching children's literature in the elementary school, including units on story telling, dramatization, choral speech work, and the correlation of literature with the content subjects.
- 446. The Teaching of Reading in the Elementary School. (3).**
A study of reading methods designed for the development of efficient independent readers; materials and activities appropriate for each developmental stage.
- 447. Techniques of Functional Literacy. (3).**
A course designed to serve teachers and prospective teachers of adult illiterates, presenting an overview of the field of functional literacy including an understanding of the sociological and psychological implications of illiteracy; a study of literacy methods; the preparation of materials for the new adult reader; and the promotion of literacy in the United States and overseas.
- 448. Workshop in the Reading Program. (3).**
Through the media of group study, discussion, demonstrations, directed observation, and laboratory work, participants will formulate plans for reading programs, including content, methods and techniques, materials, and evaluative criteria.
- 451. History of Education. (3).**
This course traces through European history some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of some of the leading education theorists, and by institutional practices.
- 452. History of Education in the United States. (3).**
This course aims to trace, describe, and evaluate the development and

growth of educational practices, institutions, and theories in the United States from the colonial period to the present.

- 453. Philosophy of Education. (3).**
A guide to the philosophical treatment of educational problems, designed to develop in the student some facility in critical and systematic thinking.
- 456. Educational Sociology. (3).**
Group behavior in the educational process; sociological factors involved in the interaction of pupils, teachers, administrators, and community.
- 461. Curriculum Problems and Trends in the Secondary School. (3).**
This course is designed to afford some help in the clarification of secondary school educational purposes and in determination of appropriate learning activities; it deals with the functional teaching objectives, ways of obtaining these objectives, methods of establishing relationships among the school subjects, developing the core curriculum, and the organization and use of units of work.
- 462. Curriculum Problems and Trends in the Elementary School. (3).**
This course deals with general educational objectives and means of achieving them; the roles of the various school subjects and their interrelationship; and the organization and use of units of work in the core curriculum.
- 466. Audio-Visual Aids to Teaching. (3).**
Effectiveness and utilization of audio-visual materials in the school program; technical and administrative problems of integrating audio-visuals into the school curriculum. Opportunities will be provided to develop skills in the use of materials and equipment.
- 471. Principles and Procedures of Guidance. (3).**
An introduction to the principles of guidance, with emphasis on the function of guidance in relation to child and adolescent needs.
- 472. The Psychology of Adolescence. (3).**
A study of the characteristics of adolescence that should be taken into account in the planning and teaching of secondary school courses, in the supervision of extra-class activities, and in guiding and counseling.
- 476. Mental Hygiene and the School. (3).**
Guidance in the teacher's own personality development and a study of the mental hygiene of the child as affected by his past and present environment.
- 478. Supervised Clinical Training in Educational Therapy. (6).**
Practical application of educational activities in the rehabilitation of patients with neuropsychiatric, orthopedic, neurological cardiac, pulmonary, and other general disabilities; included are such procedures as Braille, speech therapy, general educational development, literacy training, and other vocational subjects.
- 479. Supervised Practicum in School Guidance and Counseling. (3).**
Supervised application of the principles and methods of guidance derived from professional preparation: standardized tests, records and personal data, educational and occupational information, personal and group counseling, and interview techniques; a minimum of 135 clock hours is required. **PREREQUISITE:** permission of the instructor.

486. Elementary School Administration. (3).

A study of the major aims of the elementary school; planning the daily program through integration and related subjects; learning to keep and interpret various types of records and reports; the importance of proper teacher-pupil, teacher-teacher, teacher-administrator, and teacher-parent relationships; special emphasis on the P-TA program in Tennessee.

(The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)

S-541. Diagnostic and Remedial Reading in Elementary and Secondary Schools. (3).

An analysis of why certain children fail to read adequately; the development of a program to correct reading deficiencies.

S-553. Educational Tests and Measurements. (3).

The principles underlying the construction of objective tests and the problems relating to the use and interpretation of school measurements by teachers and administrators; practice in the construction of new-type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements.

S-565. The Modern Junior High School. (3).

Origin and functions of the junior-high school; prevailing practices in its educational program; suggested improved programs and procedures.

S-566. The Pupil Activity Program. (3).

A study of current philosophy and practice in regard to responsibilities of teachers, supervisors, and administrators for those phases of educational practice which are essential for the educational program but are not considered as part of general classroom procedure.

S-584. High School Administration. (3).

Modern practices in organizing and administering secondary schools; types of high schools; selection and assignment of staff; program of studies; records; management of buildings and grounds; pupil personnel; guidance; selection, retention, and improvement of teachers; and interpreting the school to the public.

GRADUATE COURSES IN EDUCATION

(Numbers prefixed with "G" identify courses described in the preceding section and in the section on special education for which graduate credit may be given. For further details of the graduate program, see the *Bulletin of The Graduate School*.)

G-401. Seminar in World Literacy. (3).**G-415. Directed Student Teaching in the Secondary School. (3 to 9).****G-416. Directed Student Teaching in the Secondary School. (3 to 6).****G-423. Directed Student Teaching in the Kindergarten. (3 to 6).****G-425. Directed Student Teaching in the Elementary School. (3 to 9).****G-426. Directed Student Teaching in the Elementary School. (3 to 6).****G-427. Student Teaching with the Educable Mentally Retarded. (3).**

- G-428. Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).
- G-429. Workshop for Teachers in the Elementary School. (6).
- G-431. Workshop in the Improvement of Instruction. (3).
- G-432. Workshop in the Administration of Guidance Services. (3).
- G-442. The Teaching of Natural Science in the Elementary School. (3).
- G-443. The Teaching of Mathematics in the Elementary School. (3).
- G-444. The Teaching of Social Studies in the Elementary School. (3).
- G-445. The Teaching of Children's Literature in the Elementary School. (3).
- G-446. The Teaching of Reading in the Elementary School. (3).
- G-447. Techniques of Functional Literacy. (3).
- G-448. Workshop in the Reading Program. (3 to 6).
- G-451. History of Education. (3).
- G-452. History of Education in the United States. (3).
- G-453. Philosophy of Education. (3).
- G-461. Curriculum Problems and Trends in the Secondary School. (3).
- G-462. Curriculum Problems and Trends in the Elementary School. (3).
- G-466. Audio-Visual Aids to Teaching. (3).
- G-471. Principles and Procedures of Guidance. (3).
- G-472. The Psychology of Adolescence. (3).
- G-476. Mental Hygiene and the School. (3).
- G-478. Supervised Clinical Training in Educational Therapy. (3).
- G-479. Supervised Practicum in School Guidance and Counseling. (3).
- G-480. Education of Exceptional Children. (3).
- G-481. Education of the Mentally Retarded Child. (3).
- G-482. Education of the Brain-Injured and Cerebral Palsied Child. (3).
- G-483. Education of Hospitalized and Homebound Children. (3).
- G-484. Educational and Medical Aspects of Crippling and Special Health Conditions. (3).
- G-485. Social Case Work in Education. (3).
- 501. Educational Thought. (3).
- 504. Social Foundations of Education. (3).
- 506. Comparative Education. (3).
- 521. Educational Psychology. (3).
- 526. Techniques of Counseling. (3).
- 527. Diagnostic Techniques in Guidance. (3).
- 528. Educational and Occupational Information. (3).
- 529. The Group Process as Applied to Guidance. (3).
- 536. Educational Statistics and Research Methodology. (3).
- 541. Diagnostic and Remedial Reading in Elementary and Secondary Schools.
- 553. Educational Tests and Measurements. (3).
- 557. Modern Methods in Education. (3).

- 561. **Fundamentals of Curriculum Development.** (3).
- 562. **Research in Curriculum and Instruction.** (3).
- 565. **The Modern Junior High School.** (3).
- 566. **The Pupil Activity Program.** (3).
- 591. **Special Problems.** (1 to 3).
- 593-6. **Thesis.** (3 or 6).

LIBRARY SERVICE

- 321. **Books and Related Library Materials for Children.** (3).
Primarily a reading course based on materials suitable for elementary school children: leisure-time interests and curricular needs; criteria for evaluating books and related materials such as magazines, phonograph records, radio programs, and films; aids used in their selection; types of literary and informational books, authors, illustrators, and publishers; story-telling and other devices for encouraging reading.
- 322. **Books and Related Library Materials for Young People and Adults.** (3).
This course is presented in the same manner as Library Service 321, but is adapted to materials on the junior and senior high school levels; attention is also given to adult books to enable librarians to work more effectively with faculty and community groups.
- 323. **Reference Materials.** (3).
A study of reference materials useful in various areas of the elementary and secondary school curriculum; basic reference materials in every general field are studied, thus making the course desirable for teachers as well as librarians; practice in handling reference questions.
- 411. **Organization of Materials.** (3).
Instruction and practice in simplified procedures for acquisition, preparation, organization, and circulation of books and related library materials.
- 412. **Cataloging and Classification.** (3).
An introduction to the principles of classification of books; simplified techniques of cataloging books and other materials by the abridged Dewey decimal system; the use of printed cards.
- 421. **School Library Administration.** (3).
The place of the library in the instructional and guidance program of the school and the philosophy and purposes of libraries and librarianship, including such problems as standards and evaluation, public relations and publicity, support, housing and equipment, training of assistants, and library-study hall relationships; field trips to different types of libraries.

GRADUATE COURSES IN LIBRARY SERVICE

(Graduate credit may be given for the following courses, described in the preceding section. For full details of the graduate program, see the Bulletin of The Graduate School.)

- G-411. **Organization of Materials.** (3).
- G-412. **Cataloging and Classification.** (3).
- G-421. **School Library Administration.** (3).

SPECIAL EDUCATION

- *427. Student Teaching with the Educable Mentally Retarded. (3).**
Orientation, observation, and teaching with mentally retarded pupils.
PREREQUISITE: Education 425 or 426.
- *428. Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).**
Orientation, observation, and teaching with pupils who have crippling and special health conditions. PREREQUISITE: Education 425 or 426.
- 480. Education of Exceptional Children. (3).**
A survey course which deals with the general problems involved in the education of exceptional children.
- 481. Education of the Mentally Retarded Child. (3).**
Designed to aid students in understanding the mentally retarded child; basic educational techniques and methods applicable to mentally retarded children.
- 482. Education of the Brain-Injured and Cerebral Palsied Child. (3).**
A study of the neurological mechanisms; the types of aphasia and their educational implications and adjustments; the types of cerebral palsy and their educational implications and remedies by use of special methods and materials; other physiological impairments (such as encephalitis) frequently encountered by teachers of special education; an investigation of the most satisfactory educational approaches to the rectification of these conditions.
- 483. Education of Hospitalized and Homebound Children. (3).**
Orientation to the general and specific problems of the hospitalized and homebound child.
- 484. Educational and Medical Aspects of Crippling and Special Health Conditions. (3).**
A detailed study of the various types of physically disabling conditions (poliomyelitis, cleft palate, arthritis, measles, and other commonly injurious conditions) which cause either temporary or permanent decreases in educational proficiency; special methods of instruction and suitable adaptations of materials for such afflicted children within the framework of the public school organization.
- 485. Social Case Work in Education. (3).**
An introductory course designed to acquaint the student with the concepts and principles underlying social case work.

GRADUATE COURSES IN SPECIAL EDUCATION

(The special education courses described above may be taken for graduate credit; see page 155 of this catalog, and the Bulletin of The Graduate School.)

DRAMA

(See SPEECH AND DRAMA)

*See page 152 for information concerning enrollment in directed student teaching courses.

ECONOMICS AND FINANCE

PROFESSOR ROLAND THOMAS MULLINS, *Chairman*
Room 101, *The School of Business Administration Building*

PROFESSOR GUYTON

ASSOCIATE PROFESSOR HOLCOMB

ASSISTANT PROFESSORS HOLLIS and VIKOR

Requirements for the majors and minors in economics and in finance for the Bachelor of Business Administration degree are listed on page 110. Requirements for the major and minor in economics for the bachelor's degree in The School of Arts and Sciences are listed on page 97.

211. Principles of Economics I. (3).

An introduction to economic concepts and terminology and to the fundamental principles underlying the production, exchange, distribution, and consumption of income and wealth, together with the application of those principles to major contemporary problems. Attention is given to both the neo-classical and the national income methods of economic analysis.

212. Principles of Economics II. (3).

A continuation of Economics 211. PREREQUISITE: Economics 211.

304. Economics of Transportation. (Formerly Management 304). (3).

Development of American transportation system—waterways, highways, railways, and air; characteristics of modern transportation services; rates and rate making; public aid and regulation; economics of transportation. PREREQUISITES: Economics 211 and 212.

311. Economic Development of the United States. (Formerly Management 311). (3).

Analysis of economic growth of the American economy. Emphasis is placed on the factors instrumental in that growth in the various segments of the economy. PREREQUISITES: Economics 211 and 212.

312. Economics of Business Enterprise. (Formerly Management 312). (3).

Analysis of the functioning of business enterprise by applying economic theory to the actual problems of business. Analysis techniques are applied to profit, competition, product policy, demand and cost conditions, pricing policies, and capital budgeting. Both semesters. PREREQUISITES: Economics 211 and 212.

313. Economics of Consumption. (Formerly Management 313). (3).

Analysis of the role of the consumer in the functioning of the economic system and his viewpoint in relation to economic problems affecting his interests. Spring semester. PREREQUISITES: Economics 211 and 212.

321. Labor Economics. (Formerly Economics 312 and Management 321). (3).

An introductory course dealing with the principles, history, and theories of labor policies. Both semesters. PREREQUISITES: Economics 211 and 212.

- 361. Money and Banking.** (Formerly Economics 321 and Management 361). (3).
Monetary and banking history of leading countries with special emphasis on the theory of money and banking in the United States, deposit and earning operations of individual banks, interbank and central bank relations. Both semesters. PREREQUISITES: Economics 211 and 212.
- 411. Development of Economic Thought.** (Formerly Economics 421). (3).
An analytical and critical study of the development of economic thought. PREREQUISITES: Economics 211 and 212.
- 412. Comparative Economic Systems.** (Formerly Economics 434). (3).
Analytical study of economic problems and the theoretical framework under different economic systems such as capitalism, socialism, communism, with emphasis on the economic problems of the U.S.S.R. PREREQUISITES: Economics 211 and 212.
- 413. Economic Theory I.** (Formerly Economics 341 and Management 413). (3).
An introduction to the following concepts of price level, output, and employment: national income, neo-classical, quantity of money theory, and neo-Keynesian. PREREQUISITES: Economics 211 and 212.
- 414. Business Cycles and Forecasting.** (Formerly Economics 432 and Management 414). (3).
Study of factors involved in the movements of business activity: irregular, seasonal, regular, and trend; application of the same for forecasting purposes in business. PREREQUISITES: Economics 361 and Management 371.
- 451. Public Finance.** (Formerly Economics 322 and Management 451). (3).
Theory and practice of government expenditure and revenue; theory, practice, shifting, and incidence of the various forms of taxation; elementary consideration of the integrating of revenue and expenditure into fiscal policy. Fall semester. PREREQUISITES: Economics 211 and 212.
- 452. State and Local Finance.** (Formerly Management 452). (3).
Specialized treatment of state and local financial administration or revenue and expenditure with emphasis on Tennessee; consideration is given to trends in policy formation and integration with Federal fiscal policy. PREREQUISITES: Economics 211 and 212.
- 461. Money and Banking II.** (Formerly Management 461). (3).
A detailed consideration of banking and its problems since 1930, with emphasis on monetary and banking policy and its relationship to business and fiscal policy. Fall semester. PREREQUISITE: Economics 361.
- 462. Investments.** (Formerly Management 462). (3).
The principles of investment in stocks and bonds and their application to specific classes of investments. Spring semester. PREREQUISITE: Management 341.
- 491. Government Regulation and Business Policy.** (Formerly Management 491). (3).
A critical study of the impact of legislation and commission regula-

tion on business policies; the effect of tax laws, Securities and Exchange Commission regulation and anti-monopoly legislation, and organizational, financial, and operational aspects of non-utility business enterprises. Fall semester. PREREQUISITES: Economics 211 and 212.

492. National Income Analysis and Fiscal Policy. (Formerly Management 492). (3).

A critical examination of the most desirable goals for fiscal policy and the programs that may be followed to attain the various goals, with emphasis on tools available and techniques involved. Spring semester. PREREQUISITES: Economics 413 or 461.

493. International Economics. (Formerly Economics 331 and Management 493). (3).

Historical approach to the theory of international trade, with consideration given to the techniques of control over investment and trade, foreign exchange, balance of payments, and world interdependence. Spring semester. PREREQUISITE: Economics 361.

494. Current Economic Problems. (Formerly Economics 332 and Management 494). (3).

A study of current domestic and international economic problems with special emphasis on international trade, foreign investments, economic reconstruction, and world economic organization and cooperation. PREREQUISITE: Economics 361.

495. Economic and Financial Problems. (Formerly Management 495). (1-3)

Approved research projects carried on by the student in his major area under supervision of members of the faculty. Both semesters. PREREQUISITES: senior standing and permission of the department chairman.

S-511. Advanced Economic Thought. (3).

Advanced study of contemporary economic thought. PREREQUISITE: Economics 411.

S-513. Seminar in Economics. (3).

Special study of selected current problems in this area; for the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. PREREQUISITE: permission of the instructor.

S-561. Monetary and Fiscal Policy. (Formerly Management S-561). (3).

The planning and implementation of various monetary and fiscal measures, with emphasis on the probable impact on important segments of the economy, the changes most likely to result, and the significance of those changes to business. Included is a survey of the tools, techniques, and changes in economic thinking. PREREQUISITE: Economics 461 and 492.

S-562. Investment Portfolio Planning. (Formerly Management S-562). (3).

A study of the objectives of investment management with the emphasis on investments by individuals rather than by institutions. A study of risks as the principal elements involved in making investment decisions; the analysis of particular industries, companies, and

securities involved in the selection of portfolio securities. The emphasis is on long term investment decisions, but considerable attention is given to the timing of purchases and sales. **PREREQUISITE:** Economics 462.

S-563. Seminar in Finance. (3).

Special study of selected current problems in this area; for the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. **PREREQUISITE:** permission of the instructor.

GRADUATE COURSES IN ECONOMICS AND FINANCE

(The 400 and 500 courses described in the preceding section may be taken for graduate credit. For further details of the graduate program see the Bulletin of The Graduate School.)

EDUCATION

(See CURRICULUM AND INSTRUCTION)

EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSOR ELLERY EARL CRADER, *Chairman*

Room 264, Administration Building

ASSOCIATE PROFESSOR INGRAM

The Department of Educational Administration and supervision does not offer courses at the undergraduate level; the 400 courses listed below are described under the Department of Curriculum and Instruction; the 500 courses are described in the Bulletin of The Graduate School.

-
- G-411. School and Community Relationships. (3).**
 - G-486. Elementary School Administration. (3).**
 - 537. Techniques of Educational Research. (3).**
 - 571. City and County School Supervision. (3).**
 - 572. High School Supervision. (3).**
 - 573. Elementary School Supervision. (3).**
 - 581. Public School Organization and Administration. (3).**
 - 582. School Finance and Business Management. (3).**
 - 583. School Housing and Transportation. (3).**
 - 584. High School Administration. (3).**
 - 586. Basic Theories of Educational Administration. (3).**
 - 587. Contemporary Issues in Educational Leadership. (3).**
 - 588. School Law. (3).**
 - 589. Human Relations in School Administration. (3).**
 - 591. Special Problems. (1 to 3).**
 - 593-6. Thesis. (3 or 6).**
 - 599. Seminar in Educational Leadership. (1 to 6).**

ENGLISH

PROFESSOR HENRY B. EVANS, *Chairman*
Room 222, Administration Building

PROFESSORS BANNON, CARSON, FARRIOR, WALTER SMITH, and WYNN

ASSOCIATE PROFESSORS HOWELL, OSBORNE, PHILLIPS, SEAY, and
ALFRED SMITH

ASSISTANT PROFESSORS ARENDS, CHILDERS, CLIFTON,
WALKER, and WOOLF

MR. ABBETT, MRS. ALLEN, MRS. BATTLE, MR. BIRMINGHAM, MISS CHANEY,
MR. COCHRAN, MR. COKER, MR. COTHAM, MRS. FOX, MR. GRIMES, MR.
JAMES, MR. McLAURIN, MR. McLEMORE, MR. MORGAN, MRS. REID,
MR. RILEY, MR. ROBINSON, MR. WILLIAMS

MR. ADAMS, MR. BROWN, MRS. FOOTE, MRS. KRAUSE, MRS. KUBIK

Requirements for the major and minor in English are listed on page 97. All candidates for graduation at Memphis State University are required to complete English 111, 112, 211, 212, or their equivalent. These courses must be scheduled consecutively through the freshman and sophomore years and may not be dropped from the student's course load except under very special conditions. They must be taken in sequence; no credit will be allowed on any course until all the preceding courses have been completed successfully.

111. English Fundamentals. (3).

Training in correct writing, including a review of sentence and paragraph construction, diction, punctuation, grammar, and spelling; expository and narrative themes; readings in fiction and non-fiction.

112. English Fundamentals. (3).

A continuation of English 111, devoted to the more complex forms of writing and additional readings. PREREQUISITE: English 111 or the equivalent.

211. English Literature. (3).

A survey of English literature from the beginning to the period of Romanticism, with emphasis on the works of Chaucer, Spenser, Shakespeare, Milton, Dryden, Addison, Steele, Pope, Swift, and Goldsmith. PREREQUISITES: English 111 and 112, or the equivalent.

212. English Literature. (3).

A survey of English literature from the period of Romanticism to the present day, with emphasis on the works of Wordsworth, Coleridge, Shelley, Keats, Byron, Carlyle, Tennyson, Browning, Arnold, Hardy, Housman, Yeats, and Eliot. PREREQUISITES: English 111, 112, and 211, or the equivalent.

NOTE: No student may enroll for an upper-division English course until he has completed satisfactorily English 111, 112, 211, 212, or the equivalent.

301. Survey of American Literature. (3).

A study of American literature from the beginnings to the period of the Civil War, with emphasis on major writers between 1820 and 1860.

- 302. Survey of American Literature. (3).**
Major writers and literary trends from the Civil War to the close of the nineteenth century.
- 303. Survey of American Literature. (3).**
A continuation of the study of American literature from the close of the nineteenth century to the present time, with attention given to the development of realism and naturalism, and to social and cultural backgrounds.
- 311. Early American Novel. (3).**
A critical examination of the background of the American novel from its beginning. Readings will consist of representative novels of nineteenth-century America.
- 312. The Modern American Novel. (3).**
Critical analysis and appreciation of representative American novels from 1900 to the present.
- 313. The Continental Novel. (3).**
Critical analysis and appreciation of representative novels chosen from the works of important European writers from 1850 to 1950.
- 331. The Short Story. (3).**
A critical study of modern short stories, English, American, and European: the author's responses to the personal, social, and ethical problems of their time and their techniques as artists.
- 332. Modern Poetry. (3).**
A study of major English and American poets writing between 1900 and the present with attention given to Hardy, Yeats, Thomas, Auden, Eliot, Robinson, Frost, Stevens, Cummings, and Ransom.
- 340. Seventeenth Century Literature. (3).**
The major poetry and prose of Donne, Jonson, Bacon, Browne, Dryden, and others are analyzed carefully and considered in relation to the historical and intellectual developments of the seventeenth century.
- 341. Eighteenth Century English Literature. (3).**
Poetry and prose from Pomfret to Blake. Detailed study of representative works with some attention to the origin and course of neoclassicism and romanticism.
- 342. Romantic Poets of the Nineteenth Century. (3).**
The poetry of Shelley, Keats, and Byron. Collateral readings in prose of the period.
- 350. The Renaissance. (3).**
A study of non-dramatic poetry and prose of sixteenth century England.
- 351. Victorian Poetry. (3).**
A study of major English poets writing between 1830 and 1900, with some consideration of the social, intellectual, and aesthetic interests of their times. Particular attention will be given to the poetry of Arnold, Rossetti, Morris, and Swinburne; additional selections will be drawn from the works of Fitzgerald, Clough, Cristina Rossetti, Meredith, Hopkins, Hardy, and Housman.

- 352. Victorian Prose. (3).**
A study of selections from the critical and philosophical prose of the great Victorians, with consideration of social, political, intellectual, and aesthetic ideas and interests of their era (1830-1900). Particular attention will be devoted to the major works of Carlyle, Mill, Newman, Arnold, Ruskin, Morris, Huxley, and Pater.
- 361. World Literature—Ancient Period. (3).**
Classics from ancient literature, principally Greek and Roman, are studied with a view of discovering permanent elements of culture. English translations are used.
- 362. World Literature—Medieval Period. (3).**
A study of translated European classics beginning with the medieval epic and ending with the Renaissance.
- 370. Mythology. (3).**
A study of the myths of Greece and Rome.
- 372. Creative Writing.**
Extensive writing of essays and short stories. Intensive study of literary models. Class discussion and criticism of student manuscripts. **PRE-REQUISITE:** Permission of the instructor.
- 380. Biblical Literature. (3).**
A study of selected books from the Old and New Testaments for their literary value with consideration given to the place of the Bible in world literature.
- 400. Literary Criticism. (3).**
The major document in Western criticism, from Plato to the present.
- 401. Old English Grammar and Readings. (3).**
Emphasis is chiefly upon Anglo-Saxon grammar with some time devoted to selections from the literature of the period.
- 402. Beowulf. (3).**
A continuation of English 401, with literary and linguistic emphasis.
- 411. Early English Drama. (3).**
British drama exclusive of Shakespeare, is traced from its beginnings to the closing of the theaters in 1642.
- 412. English Drama since 1642. (3).**
A continuation of English 411, beginning with the Restoration and continuing to the present.
- 413. Studies in American Drama. (3).**
The development of the American drama as a literary form and its relation to currents in American thought.
- 420. Spenser. (3).**
The Faerie Queene and other major poems are studied in the context of the historical, intellectual, and literary developments of the English Renaissance.
- 421. Chaucer. (3).**
As many of *The Canterbury Tales* as possible are read and discussed in class.

422. **Milton. (3).**
The poetry of Milton is emphasized in this course, with some attention given to his essays.
423. **Tennyson and Browning. (3).**
An intensive study of selected poems of different types produced by each poet. Their philosophy and religion are considered, as well as their connection with forerunners and successors.
424. **Coleridge and Wordsworth. (3).**
The poetry and prose of Coleridge and Wordsworth with special attention to *The Prelude*.
432. **Shakespeare's Tragedies. (3).**
All of Shakespeare's tragedies are read and critical examination is made of at least five of the author's greatest works. Attention is given to the principles governing tragedy.
433. **Shakespeare's Comedies and Histories. (3).**
The best known of Shakespeare's comedies are included in this course. In addition several of his histories are studied.
441. **The English Language. (3).**
A thorough investigation of the development of the English language from the standpoint of phonology and etymology.
442. **English Grammar. (3).**
The historical development of English grammatical principles.
443. **Semantics. (3).**
Meaning and change of meaning in the use of English words.
451. **The English Novel. (3).**
A critical appreciation of representative novels. Class discussion of their literary and historical merit and of their reflection of the authors' responses to the personal, social, and ethical problems of the times. From the Age of Elizabeth to mid-nineteenth century.
452. **The English Novel. (3).**
A continuation of English 451. From mid-nineteenth century to the present.
461. **American Authors. (3).**
An analysis of the work of three nineteenth century writers of fiction—Poe, Hawthorne, and Melville—with special attention to their themes and artistic forms.
462. **American Authors. (3).**
An appreciation of Emerson, Thoreau, and Whitman as poets and essayists, with emphasis upon their place in the development of ideas and art forms.
470. **The South in Literature. (3).**
A study of the culture and traditions of the South as reflected in its literature. Considerable independent reading will be required.
490. **British and Continental Backgrounds of English Literature. (6).**
This course is offered through travel and study; students are admitted by special permission of the instructor and tour conductor.

GRADUATE COURSES IN ENGLISH

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of graduate program see the Bulletin of The Graduate School.)

- G-400. The Principles of Literary Criticism. (3).
- G-401. Old English Grammar. (3).
- G-402. Beowulf. (3).
- G-411. Early English Drama. (3).
- G-412. English Drama since 1642. (3).
- G-413. Studies in American Drama. (3).
- G-420. Spenser. (3).
- G-421. Chaucer. (3).
- G-422. Milton. (3).
- G-423. Tennyson and Browning. (3).
- G-424. Coleridge and Wordsworth. (3).
- G-432. Shakespeare's Tragedies.
- G-433. Shakespeare's Comedies and Histories. (3).
- G-441. The English Language. (3).
- G-442. English Grammar. (3).
- G-443. Semantics. (3).
- G-451. The English Novel. (3).
- G-452. The English Novel. (3).
- G-461. American Authors. (3).
- G-462. American Authors. (3).
- G-470. The South in Literature. (3).
- G-490. British and Continental Backgrounds of English Literature. (6).
- 531. Studies in Ancient Drama. (3).
- 532. Studies in Medieval and Modern Drama. (3).
- 533. Studies in Non-Dramatic Literature—Ancient. (3).
- 534. Studies in Non-Dramatic Literature—Medieval and Renaissance. (3).
- 542. Studies in the Eighteenth Century Novel. (3).
- 543. Restoration and Eighteenth Century Poetry. (3).
- 551. Milton and His Age. (3).
- 552. Milton and His Age. (3).
- 561. Studies in American Literature before 1860. (3).
- 562. Studies in American Literature since 1860. (3).
- 571. Studies in the Literature of the Romantic Period. (3).
- 572. Studies in Victorian Literature. (3).

FINANCE

(See ECONOMICS AND FINANCE)

FRENCH

(See MODERN LANGUAGES)

GEOGRAPHY

PROFESSOR PAUL HARDEMAN SISCO, *Chairman*
Room 124, Johnson Hall

PROFESSOR JOHNSON

ASSOCIATE PROFESSOR MATTHEWS

ASSISTANT PROFESSORS BUTLER, CORBET, FRYE, and SOBOL

MRS. ALMY

Requirements for the major and minor in Geography are listed on page 98. The Army Map Service of Washington, D.C., has chosen the map library in Johnson Hall at Memphis State University as a depository for some 10,000 of its maps. These maps embrace all phases of social science work, and all students of the department will be directed to use them frequently.

111. **Introduction to Earth Science I. (3).**
An introductory study of earth-sun and earth-moon relations, the oceans and their movements, weather, and climate.
Two lecture, two laboratory hours per week.
112. **Introduction to Earth Science II. (3).**
An introductory study of maps as a basic tool in understanding earth phenomena, landforms, the structure and composition of rocks, soils and their capabilities.
Two lecture, two laboratory hours per week.
(Geography 111 and 112 will satisfy the requirement of one year of a physical science for the baccalaureate degree.)
121. **Economic Geography: Major Basic Resources. (3).**
Man's development and use of such major basic resources as land, water, forests, and minerals.
122. **Economic Geography: Industrial and Commercial. (3).**
An introductory study of manufacturing, trade, and transportation.
231. **Latin America. (3).**
A survey of Mexico, Central America, the West Indies, and the continent of South America.
232. **Africa. (3).**
A survey of a low latitude continent with high contrasts in cultural and physical phenomena.
235. **A Survey of World Regions I. (3).**
Regional geography in Europe, the Soviet Union, and the Middle East with emphasis on the people and their activities as related to the environment.
236. **A Survey of World Regions II. (3).**
Regional geography in the Orient, the Pacific world, Africa, and Latin America, with emphasis on the people and their activities as related to the environment.
321. **Historical Geography of Europe. (3).**
An analysis of human occupancy in Europe during selected periods, with a study of significant relationships between the physical and cultural features.

- 322. Historical Geography of the United States. (3).**
A study of the geography of selected areas of the United States for sequent periods of their occupancy by the white man.
- 331. Anglo-America I. (3).**
An analytical study of the cultural-physical complex in the area of the United States east of the Rockies.
- 332. Anglo-America II. (3).**
An analytical study of the cultural-physical complex in the western United States, Canada, and Alaska.
- 341. Cartography. (3).**
An introductory course in (1) map projections, grids, scales, symbols, and (2) map drafting for geographical uses. Lectures and laboratory work.
- 342. Map Intelligence. (3).**
An intensive investigation of charts, graphs, maps, and aerial photography as geographical tools. Lectures and laboratory work in the Johnson Hall Map Library, a depository of the United States Army Map Service for all maps and material it provides.
- 343. Photogrammetry. (3).**
A survey course dealing with the art and science of obtaining geographic information from landscape surveys by means of photography.
- 351. Principles of Conservation. (3).**
Current problems and responsibilities relating to the conservation of soil, minerals, forests, water, wild life, and the natural beauty of the earth. One field trip is required.
- *411. Earth Science I. The Earth. (3).**
An analytical study of land forms, their changes, and their uses to man.
- *412. Earth Science II. The Atmosphere. (3).**
An analytical study of climatic factors, climatic regions, and climatic effects on man.
- *413. Earth Science III. The Soil. (3).**
An analytical study of soils to include their physical, chemical, and biological qualities, and their classes, uses, and measures of conservation.
- *414. Earth Science IV. The Oceans. (3).**
An analytical study of the oceans to include their physical, chemical, and biological qualities; their movements, resources, climatic influences, and importance for transportation.
- 421. Geography and World Power. (3).**
The potential strength of the United States as a world power based on the culture and economy of the people, and the natural resources of the country.
- 425. Political Geography. (3).**
The major powers of the world and strategic areas and problems of international concern.

*Geography 411, 412, 413, and 414 are designed to be of interest and value to students in the physical sciences as well as those in the social sciences; assignments include lectures, laboratory work, and field trips.

- 431. Western Europe. (3).**
A geographic analysis of the lands west of the Iron Curtain.
- 432. The Soviet Realm. (3).**
A regional analysis of the Soviet Union and its satellites.
- 433. Asia South of the Soviet Realm. (3).**
A consideration of the significance of regional differences in Japan, China, and India, and a brief survey of the remaining areas.
- 436. The South. (3).**
A specialized study of selected regions in the South with emphasis on changes and trends in the cultural-physical complex.
- 437. Tennessee. (3).**
A comparison of the human-use, political, and physical regions of the state.
- 441-A. Local Field Study. (3).**
A brief study of field planning and techniques and an application of these phenomena in reconnaissance field work and in the detailed mapping of physical and cultural features. Three half-day field trips are required. **PREREQUISITE:** permission of the instructor.
- 441-B. Regional Field Study. (6).**
A comparative study of selected regions of the world, including library study of the regions to be traversed, a minimum of sixteen days of study in the regions, and oral and written reports. **PREREQUISITE:** permission of the instructor.
- 451. Urban Land Uses. (3). (Formerly Geography 553).**
A study of the allocation of land for urban uses; the adjustments and adaptations to existing physical phenomena; the patterns, functions, and forms of specific urban land areas; and some of the continuous problems of urban development and growth.
- 452. City Planning. (3).**
The fundamental principles of urban planning, basic elements of a city plan, and the necessity of continuity in planning administration.
- 453. Urban Renewal. (3).**
Changing urban land uses, first in areas which must improve or rebuild obsolete patterns, functions, and forms; and second in areas with acceptable uses, structures, and institutions which in the interest and welfare of all the people must have additional space for growth and expansion.
- 454. Residential Housing. (3). (Formerly Geography 451).**
A study of residential housing primarily in urban areas, sub-division development, and the major phases of home building and financing.
- 455. Workshop in Conservation. (3 or 6).**
A course for students interested in resource problems in Tennessee, in remedial measures applied to specific resource abuses in local communities, and in increasing inspiration and enthusiasm through association with trained resource workers.

GRADUATE COURSES IN GEOGRAPHY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses

and further details of the graduate program see the *Bulletin of The Graduate School*.)

- G-411. Earth Science I. The Earth. (3).
- G-412. Earth Science II. The Atmosphere. (3).
- G-413. Earth Science III. The Soil. (3).
- G-414. Earth Science IV. The Oceans. (3).
- G-421. Geography and World Power. (3).
- G-425. Political Geography. (3).
- G-431. Western Europe. (3).
- G-432. The Soviet Realm. (3).
- G-433. Asia South of the Soviet Realm. (3).
- G-436. The South. (3).
- G-437. Tennessee. (3).
- G-441A. Local Field Study. (3).
- G-441B. Regional Field Study. (6).
- G-451. Urban Land Uses. (Formerly Geography 553). (3).
- G-452. City Planning. (3).
- G-453. Urban Renewal. (3).
- G-454. Residential Housing. (Formerly Geography 451). (3).
- G-455. Workshop in Conservation. (3 or 6).
- 521. Economic Geography: Agricultural. (3).
- 522. Economic Geography: Industrial and Commercial. (3).
- 524. Population Geography. (3).
- 531. Seminar in Regional Geography. (3).
- 541. Maps, Charts, and Graphs. (3).
- 551. Conservation of Natural Resources. (3).
- 561. Geographic Tools and Techniques. (3).
- 590. Development of Geographic Thought. (3).
- 591A. Problems in Regional Geography. (3).
- 591B. Problems in Non-Regional Geography. (3).
- 593. Thesis. (3 or 6).

GERMAN

(See MODERN LANGUAGES)

GREEK

(See CLASSICAL LANGUAGES)

HEALTH AND PHYSICAL EDUCATION

PROFESSOR RALPH L. HATLEY, *Chairman*
Room 215, Field House

PROFESSOR LAMBERT

ASSOCIATE PROFESSORS DAVIS, ROANE, and VANATTA

ASSISTANT PROFESSORS EHLERS, FLOYD, ILLING, and SCOTT

MRS. BUNCH, MR. COBB, MISS DOWD, MR. FRENCH, MR. JOHNSON,
MR. MURPHY, MRS. OWEN, MR. PATRICK, MR. PRICE, MR. SMITH,
and MR. WAITES

Majors and minors are offered in (1) health and (2) health and physical education. Requirements are listed on page 120.

For details of the program in corrective therapy offered in cooperation with Kennedy Veterans Hospital, see the department chairman.

HEALTH

- 101. Health, Personal and Community. (3).**
The physiological basis of correct living, including fundamental biological facts; the psychological aspects of human behavior as they affect the individual health conduct and mental hygiene; the agents of disease and modern scientific methods of controlling them; the roles of public health agencies and related cooperative agencies; the individual's responsibility for maintaining a healthful community.
- 150. Introduction to Public Health. (3).**
The organization and structure of official and voluntary health agencies, international, national, state, and local, with a consideration of their aims, objectives, and principles as they are related to the nurse and teacher.
- 151. Control Methods of Preventable Diseases. (3).**
The factors which relate to the control of communicable and non-communicable disease; modern techniques of prevention, immunization against, and control of disease through medical and nursing supervision.
- 241. Nutrition. (3). Same as Home Economics 241.**
- 231. Safety and First Aid. (3).**
First aid and safety measures for the home, school, and community; use of first aid materials; recognition of injuries and emergency treatment.
- 250. Maternal and Child Health. (3).**
A study of the development of community programs for adequate maternal and child care, with emphasis on the improvement of social, economic, and physical welfare of mothers and children through cooperation of all community agencies; materials, techniques, and resources used in solving maternal and child health problems.
- 301. Health Education in Schools. (3).**
An analysis of the health problems of school-age children in the home, school, and community, with emphasis on improving health behavior through sound health teaching; procedures and principles involved in coordinating health instruction with other areas of the curriculum; materials and resources for health teaching.
- 302. Health Service in Schools. (3).**
Methods of organizing and implementing health measures in schools and of relating them to other community agencies; techniques for determining health status through screening processes; the detection of remedial defects and follow-up for correction; the promotion of health through environment and special health services; sanitation in the home, school, and community as it affects the school child.
- 321. Advanced Safety and First Aid. (3).**
A course for students who wish to qualify for American Red Cross approval as instructors in first aid; emphasis is placed on the techniques of demonstration and presentation of first aid principles and methods. Upon successful completion of this course, the student will be awarded an American Red Cross First Aid Instructor's Certification. **PREREQUISITE:** Health 231, or ARC Advanced Certificate.
- 414. Problems of the Exceptional Child. (Same as Psychology 414). (3).**

415. Education of Exceptional Children. (Same as Special Education 480). (3).

416. Observation in Community Agencies. (3).

An introduction to the purposes, objectives, functions, and programs of a variety of community health and welfare agencies, with opportunities to visit official and volunteer agencies. Application should be made at least 60 days before the student plans to enroll in the course. **PREREQUISITE:** permission of the chairman of the Department of Health and Physical Education.

417. Field Practice in Community Agencies. (3).

Observation and supervised practice of all phases of public health activities in which the student would be expected to participate in professional life; the course is organized to meet the needs of the individual student. Application must be made at least 60 days before the student plans to enroll in the course. **PREREQUISITE:** permission of the chairman of the Department of Health and Physical Education.

***434. Problems in Health Education.** (1 to 3).

Designed to afford opportunities for prospective or in-service school and other professional personnel to work individually or in groups on health education factors in the solution of practical problems. **PREREQUISITE:** permission of the instructor.

450. Supervision and Administration in Health Agencies. (3).

The functions, principles, and procedures of supervision and administration of health agencies, with emphasis on the relationship and responsibilities of personnel in planning, promoting, improving, and evaluating the total health activities in the family-centered health services; legal and legislative aspects of health activities.

470. Trends and Problems in Public Health. (3).

A review of the historical development and current trends in professional nursing as a community service; the various needs and demands for medical care; the contribution of the professional personnel in providing for total health services and education.

476. Mental Hygiene. (Same as Education 476). (3).

480. Health Statistics. (3).

A study of the statistical method, including collection, analysis, and presentation of numerical data pertaining to health problems.

GRADUATE COURSES IN HEALTH

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit may be given. For details of the graduate program, see the Bulletin of The Graduate School.)

G-416. Observation in Community Agencies. (3).

G-417. Field Practice in Community Agencies. (3).

G-450. Supervision and Administration in Health Agencies. (3).

G-470. Trends and Problems in Public Health. (3).

G-480. Health Statistics. (3).

*Credit may be earned in only one of the following courses: Health 434, Physical Education 434.

- 551. Health Education in Organic and Functional Diseases. (3).
- 552. Community Health Education. (3).
- 553. Health Guidance and Counseling. (3).
- 554. Environmental and Occupational Health Education. (3).

PHYSICAL EDUCATION

(For details of the physical education requirements for graduation, see page 76.)

- 100. **Orientation and Conditioning.** (1).
Orientation and conditioning (for men); orientation and fundamental rhythms (for women). One or two semesters required of all students (except majors in health and physical education).
- 111. **Orientation for Physical Education Majors and Minors.** (1).
Fundamental movements, touch football, basketball (for men); volleyball, soccer, speedball, and tumbling (for women). This course is required of and restricted to students majoring or minoring in physical education.
- 2—. **Selected Physical Activities.** (3).
Two or three semesters required of all students, the specific course number to be selected from the following list. **PREREQUISITE:** Physical Education 100.

MEN

- 211. Inactive and adaptive
- 212. Tumbling, wrestling, and trampoline
- 213. Weightlifting
- 214. Touch football and basketball
- 215. Tennis and bowling
- 216. Golf and recreational games
- 217. Volleyball and softball
- 218. Badminton
- 219. Swimming
- 220. Handball

WOMEN

- 251. Inactive and adaptive
- 252. Soccer, speed ball and volleyball
- 253. Basketball, field hockey, softball
- 255. Badminton
- 256. Tennis
- 257. Golf
- 258. Beginning swimming
- 259. Intermediate swimming
- 262. Fencing
- 263. Equestrian
- 264. Tumbling and trampoline

CO-EDUCATIONAL

- 241. Folk and social dance
- 242. Tap dance
- 243. Modern dance
- 244. Modern dance (advanced)
- 245. Archery and bowling
- 265. Badminton (advanced)

NOTE: The following courses are required of all students majoring in health and physical education.

- 111. (See description above)
- 212. Tumbling, wrestling, and trampoline (men)
- 217. Volleyball, softball, speedball (men)
- 241. Folk and social dance
- 243. Modern dance (women)
- 245. Archery and recreation games
- 246. Tennis and golf
- 253. Basketball, fieldball, softball, track and field events (women)
- 260. Swimming (beginning and intermediate)
- 261. Swimming (life saving)

- 272. **Club and Camp Leadership.** (3).
Theory and procedure in organization and leadership of club groups and camping activities; practical laboratory work with local groups and camping projects.
Two lecture, two laboratory hours per week.
- 281. **Fundamentals and Techniques of Football.** (2).
Fundamentals of football coaching with special emphasis on blocking, tackling, passing, punting, catching; principles of line and backfield work; playing the various positions; formation of plays, generalship, signal systems, and scouting; coaching problems; study of the rules.

282. Fundamentals and Techniques of Basketball. (2).

The theory and practice of basketball coaching, history of the game, and study of the rules; offensive and defensive systems; drills for the development of fundamental skills; training and conditioning of basketball squads.

283. Fundamentals and Techniques of Track and Field. (2).

The accepted forms of starting, hurdling, distance running, pole vaulting, discus and javelin throwing, and sprinting; physical conditions affecting speed, endurance, and fatigue; the selection and preparation of contestants for track and field events; managing and officiating games and meets; study of rules.

284. Fundamentals and Techniques of Baseball and Softball. (2).

The theory and practice of baseball coaching, with attention given to the coaching of the individual in base running, fielding, batting, and pitching; detailed study of each position; offensive and defensive team play; officiating; scoring; study of rules.

310. History and Principles of Physical Education. (2).

A study of physical education systems and practices from the beginnings to the present time, designed to show the place of a sound physical education program in the modern school system; underlying principles common to all epochs; changes related to political and economic cycles.

327. Materials and Methods in Team Sports for Women. (3).

Fundamentals of teaching and coaching team sports, including history, rules, skills, and teaching progressions; laboratory experience in intramural and activity classes. PREREQUISITES: Physical Education 100 and 253.

Two lecture, two laboratory hours per week.

328. Materials and Methods in Individual and Dual Sports. (3).

Study of teaching methods, instruction and participation in individual recreational sports, tumbling, mass gymnastics, and conditioning activities; means of providing facilities for these activities. PREREQUISITES: Physical Education 245 and 246.

Two lecture, two laboratory hours per week.

332. Tests and Measurements in Health and Physical Education. (3).

A study of the various tests in the field of health and physical education, including uses and interpretation of elementary statistical techniques.

342. Corrective and Adaptive Physical Education. (2).

A theory course including lectures, demonstrations, and problems of the mechanics of physical deformities and their causes; abnormalities of the spine, feet, and other postural and functional conditions; and methods of class organization.

Two lecture hours per week, plus laboratory periods to be arranged.

343. Kinesiology. (3).

Analysis of bodily movements in terms of the muscular forces operating on the bones. PREREQUISITES: Biology 131 and 132.

344. Physiology of Exercise. (Same as Biology 344). (3).

PREREQUISITES: Biology 131 and 132.

- 345. Care and Treatment of Athletic Injuries. (2).**
Practical and theoretical aspects of treatment of athletic injuries in an athletic training program; supplies, training table, therapeutic equipment, and techniques in conditioning and bandaging.
- 350. Methods and Materials in Rhythms for Elementary School. (2).**
Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 1 through 9. **PREREQUISITE:** Physical Education 241.
Laboratory periods to be arranged.
- 351. Methods and Materials in Rhythms and Dance. (3).**
Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grades 1 through 12. **PREREQUISITE:** Physical Education 24.
Laboratory periods to be arranged.
- 391. Materials and Methods in Physical Education for Elementary Schools. (2).**
Theory of and activities for physical education in grades 1 through 9, including teaching methods, program planning, and participation in stunts, mass gymnastics, relays, informal games, team games, individual and dual sports, and mimetics; practical experience is gained through observing and directing play activities for children in the University Training School.
Laboratory periods to be arranged.
- 421. Special Problems in Athletic Coaching. (3).**
A special program in the coaching of athletics, including the completion of a research project under the supervision of a staff member; work may be carried on as an organized group study. This course may be taken only one time for credit. **PREREQUISITE:** coaching experience, or permission of the instructor.
- 426. Recreational Leadership. (3).**
Development of skills and techniques necessary for successful leadership in city, county, and school recreation programs.
- *434. Problems in Physical Education. (1 to 3).**
Designed to afford opportunity for prospective or in-service school and other professional personnel to work individually or in groups on physical education factors in the solution of practical problems. **PREREQUISITE:** permission of the instructor.
- 444. Clinical Practice. (6).**
Supervised clinical practice in the Department of Physical Medicine and Rehabilitation Service at the Kennedy Veterans Hospital; instruction will be given in the conditioning, ambulation, and self-care of patients with neurological, pulmonary, geriatric, neuropsychiatric, speech, spinal cord, cardiac, and other types of disabilities.
- 482. Organization and Administration of Health and Physical Education. (3).**
A study of administrative problems of health and physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of an intramural program.

*Credit may be earned in only one of the following courses: Physical Education 434, Health 434.

GRADUATE COURSES IN PHYSICAL EDUCATION

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit may be given. For details of the graduate program, see the Bulletin of The Graduate School.)

- G-426. Recreational Leadership. (3).
- G-444. Clinical Practice. (6).
- G-482. Organization and Administration of Health and Physical Education. (3).
- 501. Foundations of Physical Education. (3).
- 502. Introduction to Research in Health and Physical Education. (3).
- 503. Foundations of a Philosophy for American Recreation. (3).
- 510. Measurement and Evaluation in Health and Physical Education. (3).
- 526. Organization and Administration of Group Recreation. (3).
- 533. The Administration of Athletics. (3).
- 562. Curriculum Construction in Health Education and Physical Education. (3).
- 570. Supervision of Health and Physical Education. (3).
- 571. The Elementary School Health and Physical Education Program. (3).
- 591. Special Problems. (1 to 3).
- 593-6. Thesis. (3 or 6).

HEBREW

(See MODERN LANGUAGES)

HISTORY

PROFESSOR ENOCH L. MITCHELL, *Chairman*
Room 108, Administration Building

PROFESSOR BOOM

ASSOCIATE PROFESSOR BROWN

ASSISTANT PROFESSORS BURROW, CONGLETON, CURRY, GILLASPIE,
HODGES, ORR, SMITH, UTLEY, and WHITE

MRS. CURRY, MR. MCTIGHE, MR. POOL, and MRS. WOODBURY

Requirements for the major and minor in history are listed on page 98. All candidates for graduation at Memphis State University are required to complete History 221 and 222; these courses are not open to students with fewer than 25 semester hours credit.

111. The Development of European Civilization I. (3).

Especially recommended for freshmen, this course traces the forms of western civilization from their ancient beginnings through the seventeenth century.

112. The Development of European Civilization II. (3).

Especially recommended for freshmen, this course traces the forms of western civilization from the beginning of the eighteenth century to the present.

221. **The United States to 1865. (3).**
A survey of the United States from the discovery to the close of the Civil War. PREREQUISITE: sophomore standing.
222. **The United States since 1865. (3).**
A survey of the United States from the Civil War to the present. PREREQUISITE: sophomore standing.
271. **Latin America from Discovery to 1825. (Formerly History 371). (3).**
A survey of the institutions and politics of Latin America from discovery to 1825. PREREQUISITE: sophomore standing.
272. **Latin America from 1825 to the Present. (3).**
A survey of the institutions and politics of Latin America since 1825. PREREQUISITE: sophomore standing.
301. **History of England before 1660. (3).**
A survey of the development and growth of England into a nation, with attention given to constitutional progress and the achievements of the Tudor and Stuart periods. PREREQUISITE: junior standing.
302. **History of England since 1660. (3).**
A survey of the development of England's democratic government, considering economic, social, intellectual, diplomatic, and imperial affairs. PREREQUISITE: junior standing.
311. **History of Ancient Civilization I. (3).**
A study of the Ancient Near East and Greece through the time of Alexander the Great. PREREQUISITE: History 111.
312. **History of Ancient Civilization II. (3).**
A study of the Hellenistic World and of the rise and fall of the Roman Empire. PREREQUISITE: History 111.
331. **American Diplomatic History to 1889. (3).**
A study of American diplomacy to 1889. PREREQUISITE: junior standing and History 221 and 222.
332. **American Diplomatic History since 1889. (3).**
A study of American diplomacy since 1889. PREREQUISITE: junior standing and History 221 and 222.
341. **Economic History of the United States to 1865. (3).**
A study of American economic development to 1865. PREREQUISITE: junior standing and History 222.
342. **Economic History of the United States since 1865. (3).**
A study of American economic development since 1865. PREREQUISITE: junior standing and History 222.
343. **Constitutional History of the United States to 1865. (3).**
A study of the formative period and the early period of operations of the United States Constitution. PREREQUISITE: junior standing and History 221.
344. **Constitutional History of the United States since 1865. (3).**
A study of the operation of the United States Constitution since 1865. PREREQUISITE: junior standing and History 222.

351. **History of Tennessee.** (Formerly History 431). (3).
A study of the political, economic, and social development from 1769 to 1861. PREREQUISITE: junior standing and History 221.
352. **The Old South.** (Formerly History 432). (3).
A study of southern institutions prior to the outbreak of the Civil War. PREREQUISITE: junior standing and History 221.
353. **The New South.** (3).
A study of the South from the Civil War to the present. PREREQUISITE: junior standing and History 222.
354. **The West.** (Formerly History 322). (3).
A study of the significance of the frontier in the development of the United States from the Revolutionary period to 1890. PREREQUISITE: junior standing and History 221 and 222.
361. **Social and Intellectual History of the United States to 1865.** (Formerly History 461). (3).
A study of the main social and intellectual trends in the United States up to 1865. PREREQUISITE: junior standing and History 221.
362. **Social and Intellectual History of the United States since 1865.** (Formerly History 462). (3).
A study of the main social and intellectual trends in the United States since 1865. PREREQUISITE: junior standing and History 222.
371. **History of Spain.** (3).
A study of Spanish institutions, culture, and politics. PREREQUISITE: junior standing and History 111 and 112.
372. **History of Inter-American Relations from 1808 to the Present.** (3).
A study of the principal developments in Latin American countries since 1808. PREREQUISITE: junior standing.
402. **History of Russia.** (3).
A survey of Russian history from early times to the present. PREREQUISITE: junior standing and History 111 and 112.
411. **The Era of the French Revolution.** (3).
A study of the Enlightenment, the French Revolution, and the Napoleonic era. PREREQUISITE: junior standing and History 111 and 112.
412. **Europe in the Nineteenth Century.** (3).
A study of Europe during the period 1815-1914. PREREQUISITE: junior standing and History 111 and 112.
413. **Europe in the Twentieth Century.** (3).
A study of Europe since the outbreak of World War I. PREREQUISITE: junior standing and History 111 and 112.
421. **Colonial America, 1607-1763.** (Formerly History 321). (3).
A study of English America before 1763, with considerable attention given to Spanish, French, and Dutch colonization. PREREQUISITE: junior standing and History 221.
422. **Revolutionary Era, 1763-1790.** (3).
A study of the forces that brought on the American Revolution, the

Revolution, and the founding of the Federal Union. PREREQUISITE: junior standing and History 221.

- 423. Early National Period, 1790-1850. (3).**
A study of American history from unification until the beginnings of division. PREREQUISITE: junior standing and History 221.
- 424. Civil War, 1850-1865. (Formerly History 433). (3).**
A study of division and conflict. PREREQUISITE: junior standing and History 221.
- 425. Emergence of Modern America, 1865-1914. (Formerly History 421). (3).**
A study of the United States from the end of the Civil War to the outbreak of World War I. PREREQUISITE: junior standing and History 221 and 222.
- 426. Recent American History, 1914-present. (Formerly History 422). (3).**
A study of the United States from World War I to the present. PREREQUISITE: junior standing and History 221 and 222.
- 451. The Medieval World. (Formerly History 313). (3).**
A study of the history of institutional forms beginning with the decline of the Roman Empire and ending with the beginnings of Renaissance life. PREREQUISITE: junior standing and History 111 and 112.
- 452. The Renaissance World. (Formerly History 451). (3).**
A study of the achievements and forces, political and economic, social and cultural, creative and intellectual, which made up this fascinating foundation of modern European civilization. PREREQUISITE: junior standing and History 111 and 112.
- 471. History of México. (Formerly History 475). (3).**
A survey of Mexico, from independence to the present. PREREQUISITE: junior standing and History 271.
- 472. History of Brazil. (Formerly History 372). (3).**
A survey of Brazil, from independence to the present. PREREQUISITE: junior standing and History 271.
- 481. Cultural History of the Modern World I. (3).**
Especially designed to appeal to history majors, this course considers intellectual history from the twelfth century Renaissance through the period of the Thirty Years' War. PREREQUISITE: senior standing and History 111 and 112.
- 482. Cultural History of the Modern World II. (3).**
Especially designed to appeal to history majors, this course considers intellectual history in the Enlightenment, the Romantic Era, and the Liberal Tradition. PREREQUISITE: senior standing and History 111 and 112.

GRADUATE COURSES IN HISTORY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For description of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

G-402. History of Russia. (3).

G-411. The Era of the French Revolution. (3).

- G-412. Europe in the Nineteenth Century. (3).
- G-413. Europe in the Twentieth Century. (3).
- G-421. Colonial America, 1607-1763. (3).
- G-422. Revolutionary Era, 1763-1790. (3).
- G-423. Early National Period, 1790-1850. (3).
- G-424. Civil War, 1850-1865. (3).
- G-425. Emergence of Modern America, 1865-1914. (3).
- G-426. Recent American History, 1914-present. (3).
- G-451. The Medieval World. (3).
- G-452. The Renaissance World. (3).
- G-471. History of Mexico. (3).
- G-472. History of Brazil. (3).
- G-481. Cultural History of Modern World I. (3).
- G-482. Cultural History of the Modern World I. (3).
- 500. Introduction to Historical Research and Writing. (3).
- 511. Studies in Ancient History. (3).
- 513. Studies in European Diplomacy. (3).
- 521. Studies in Early American History (to 1800). (3).
- 522. Studies in the Middle Period of American History (1800-1877). (3).
- 523. Studies in Recent American History (1877-present). (3).
- 524. Studies in Southern History. (3).
- 525. Studies in Western History. (3).
- 526. Studies in Social and Intellectual History of the United States. (3).
- 539. Seminar in History. (3).
- 596. Thesis. (6).

HOME ECONOMICS

ASSISTANT PROFESSOR MARY ALMA WHITAKER, *Acting Chairman*
Room 313, Manning Hall

ASSOCIATE PROFESSOR HENDERSON

MRS. SANDS

Requirements for the major and minor in home economics are listed on page 121.

Students interested in planning a program in home economics to meet the entrance requirements established by the American Dietetics Association for postgraduate internship should consult with the department chairman.

CLOTHING AND TEXTILES

- 111. **Clothing Selection and Construction.** (3).
Standards in selecting and purchasing; construction of cotton garments to meet individual needs.
One lecture, four laboratory hours per week.
- 211. **Clothing Construction.** (3).
Fundamental principles of clothing construction, fitting and finishing garments to develop techniques in handling wool, silk, and synthetic fabrics. **PREREQUISITE:** Home Economics 111.
One lecture, four laboratory hours per week.

312. Textiles. (3).

A study of textile fibers used for clothing and house furnishing.
Two lecture, two laboratory hours per week.

313. Consumer Problems in Clothing. (3).

A course in clothing selection and buying for men and women with emphasis on individual needs and economic problems involved.

FOODS AND NUTRITION**241. Elementary Nutrition. (3).**

Nutritive value of food, factors influencing body food requirement and health. Open to freshmen.

242. Food Selection and Preparation. (3).

Principles underlying the selection and preparation of foods with an introduction to the planning and serving of meals. Open to freshmen.
One lecture, four laboratory hours per week.

341. Meal Preparation and Table Service. (3).

Nutrition fundamentals in individual and family dietaries, meal planning, marketing and table service for various occasions. **PREREQUISITE:** Home Economics 242.

One lecture, four laboratory hours per week.

342. Nutrition and Diet Therapy. (3).

Dietary problems applicable to the prevention and treatment of diseases in which therapeutic diets are of major importance. **PREREQUISITES:** Home Economics 341 and Chemistry 112.

Two lecture, two laboratory hours per week.

351. Quantity Cookery. (3).

Practical problems in preparing and serving foods for large groups. Use of standardized recipes, calculation of food costs, and use of institution equipment. **PREREQUISITE:** Home Economics 342.

One lecture, four laboratory hours per week.

352. Institution and Management Practice. (3).

Observation and practice in handling problems of organization and management of quantity food service.

HUMAN RELATIONS AND RELATED ART**117. Personal Development and Human Relations. (3).**

Individual and group adjustment, influences contributing to successful marriage and family life. Required of home economics majors in the lower division; open to other students in the lower division.

181. Art in Everyday Life. (3).

A study of the art elements and art principles through an analysis of everyday objects.

291. Health of the Family and Home Nursing. (3).

Building health habits, protection against illness and accidents; simple procedures in caring for the sick. Open to freshmen.

Two lecture, two laboratory hours per week.

471. Child Development and Family Relationships. (3).

Courtship, marriage, and achievement of satisfaction in present day family life; social, emotional, mental growth of the child.

- 473. Nursery School Practicum. (3).**
Participation in and direction of various nursery school activities.
PREREQUISITE: Home Economics 471.
One conference, five laboratory hours per week.
- 474. Nursery School Practicum. (3).**
For the student who has had or is taking Home Economics 473 and desires additional experience.
- 481. Home Furnishing and Equipment. (3).**
Principles of design and color theory applied to the selection and arrangement of the house and its furnishing.
One lecture, four laboratory hours per week.
- 482. Home Management and Consumer Education. (3).**
Problems in management of money, time, and energy; study of consumer goods; guides to buying.

INDUSTRIAL ARTS

PROFESSOR R. J. COLTHARP, *Chairman*

Room 100, Industrial Arts Building

ASSOCIATE PROFESSOR SIMMONS

ASSISTANT PROFESSORS BROTHERTON and LAWRENCE

MR. HIRSCHMANN, MR. McALPIN, and MR. OGLE

MR. FLY, MR. HAWKINS, MR. SCHEFFER, MR. VAUGHAN, and MR. WILSON

Requirements for the major and minor in industrial arts are listed on page 124.

-
- 141. Introduction to Engineering. (3).**
Introduction to the engineering profession, with emphasis on the slide rule and measuring instruments.
- 142. Interpretation of Technical Drawing. (3).**
Various types of drawings as a technique of communication in the industry.
- 151. Engineering Graphics. (3).**
Basic drafting practices in the use of instruments, theory of projections, and working drawings.
One lecture, four laboratory hours per week.
- 152. Engineering Graphics. (3).**
Continuation of Industrial Arts 151, including basic space relationships of points, lines, planes, and surfaces. PREREQUISITE: Industrial Arts 151. (Students with two years of high school drafting, or with drafting experience—upon satisfactory completion of a proficiency test—may be permitted to enroll in Industrial Arts 152).
One lecture, four laboratory hours per week.
- 161. Woodwork. (3).**
Basic hand and machine woodworking processes.
One lecture, four laboratory hours per week.
- 171. Metalwork. (3).**
Basic hand and machine metalworking processes.
One lecture, four laboratory hours per week.

- 251. Descriptive Geometry. (3).**
Representation and space relations of points, lines, and plane intersections. PREREQUISITE: Industrial Arts 152.
One lecture, four laboratory hours per week.
- 252. Industrial Design. (3).**
Theory and application of design and principles in industry. PREREQUISITE: Industrial Arts 151.
- 253. Sheet Metal Drafting. (3).**
Theory and application of principles of lofting, including parallel line, radial, and triangulation methods of development. PREREQUISITE: Industrial Arts 251.
One lecture, four laboratory hours per week.
- 261. Finishing Methods. (3).**
Studies and practices of brush, spray, and dip procedures.
One lecture, four laboratory hours per week.
- 271. Welding. (3).**
Techniques of gas and electric arc welding. PREREQUISITE: Industrial Arts 171.
One lecture, four laboratory hours per week.
- 272. Foundry. (3).**
Study and practice of casting non-ferrous metals. PREREQUISITE: Industrial Arts 161.
One lecture, four laboratory hours per week.
- 281. Electricity. (3).**
Fundamental principles and practices of electrical circuits.
One lecture, four laboratory hours per week.
- 282. Electronics. (3).**
Study of theories and practices of electronics, as applied in the areas of communication, industry, and entertainment. PREREQUISITE: *One lecture, four laboratory hours per week.*
- 291. Survey of Industrial Education. (3).**
The development, objectives, and current trends of industrial arts and vocational education; required for teaching endorsement in industrial arts. PREREQUISITES: *Two of the following courses: Education 101, 102, 201, 202.*
- 335. Driver Education and Traffic Safety. (3).**
Study and practice in the preparation of instructional materials dealing with traffic and safety; care and upkeep of the automobile, and behind-the-wheel instruction. PREREQUISITE: Education major or minor.
Two lecture, two laboratory hours per week.
- 341. Engineering Materials. (3).**
Study of materials.
- 342. Manufacturing Processes. (3).**
Study of manufacturing equipment and its uses.
- 351. Architectural Drawing. (3).**
Planning and executing residential preliminary and working drawings, details, and specifications. PREREQUISITE: Industrial Arts 252.
One lecture, four laboratory hours per week.

- 352. Architectural Drawing. (3).**
Continuation of Industrial Arts 351, including pictorial representations, model building, and furnishings design. PREREQUISITE: Industrial Arts 351.
One lecture, four laboratory hours per week.
- 355. Building Specifications and Estimating. (3).**
Study and practice of specifications, bidding procedures, and estimating. PREREQUISITE: Industrial Arts 351.
- 357. Machine Design. (3).**
Study and design of basic machine elements. PREREQUISITE: Industrial Arts 251.
One lecture, four laboratory hours per week.
- 361. Machine Woodwork. (3).**
Woodworking machines with emphasis on special operations. PREREQUISITE: Industrial Arts 161.
One lecture, four laboratory hours per week.
- 362. Upholstery. (3).**
Fundamentals of upholstery. PREREQUISITE: Industrial Arts 161 or 361.
One lecture, four laboratory hours per week.
- 363. Forestry Products. (3).**
Study and testing of wood and lumber products. PREREQUISITE: Industrial Arts 341.
- 372. Maintenance. (3).**
Practices in selection and care of tools, both hand and machine. PREREQUISITE: Industrial Arts major or minor.
One lecture, four laboratory hours per week.
- 373. Metallurgy. (3).**
Study and testing of metals and metal products. PREREQUISITE: Industrial Arts 341.
- 381. Radio. (3).**
Components, circuits, and theory of the radio receiver. PREREQUISITE: Industrial Arts 282.
One lecture, four laboratory hours per week.
- 382. Television. (3).**
Circuits of the television receiver. PREREQUISITE: Industrial Arts 381.
One lecture, four laboratory hours per week.
- 433. Masonry Products. (3).**
Study of cements, concrete, stone, and clay building materials. PREREQUISITE: Industrial Arts 341.
- 434. Problems in Industrial Arts. (3).**
Study and research in a specific area. PREREQUISITE: Senior classification, or majors and minors in Industrial Arts who can offer satisfactory evidence of being qualified to benefit by the course.
- 435. Clinical Practice in Manual Arts Therapy. (6).**
Supervised clinical practice in the Physical Medicine and Rehabilitation Service at Kennedy Veterans Hospital. PREREQUISITE: Senior classification, with major in Industrial Arts Education.

- 436. Organization of the General Shop. (3).**
Study of problems dealing with the selection and organization of general shop activities. PREREQUISITE: Education 391-H.
One lecture, four laboratory hours per week.
- 437. Industrial Safety. (3).**
Study of industrial hazards and safety procedures.
- 438. Foremanship. (3).**
Study of the functions of supervisory personnel.
- 442. Production Methods. (3).**
Practice in wood and/or metal production procedures. PREREQUISITE or COREQUISITE: Industrial Arts 447.
One lecture, four laboratory hours per week.
- 447. Production Control. (3).**
Study of the elements of production and their coordination emphasized by visits to industrial plants.
- 448. Plant Layout. (3).**
Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: Industrial Arts 151 or drafting experience.
- 449. Time and Motion Analysis. (3).**
Work simplification, including analysis of jobs and trades, as applied in time and motion. PREREQUISITE: Industrial Arts 447.
- 453. Architectural Woodwork Theory and Practice. (3).**
Study of the specialized problems of expediting architectural millwork production. PREREQUISITE: Industrial Arts 351.
- 454. Architectural Woodwork Detailing. (3).**
Study and practice of millwork detailing. PREREQUISITE: Industrial Arts 453.
One lecture, four laboratory hours per week.

GRADUATE COURSES IN INDUSTRIAL ARTS

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details of the graduate program see the Bulletin of The Graduate School.)

- G-447. Production Control. (3).**
G-449. Time and Motion Analysis. (3).
G-448. Plant Layout. (3).

JOURNALISM

PROFESSOR HERBERT LEE WILLIAMS, *Chairman*
Room 140, Administration Building

ASSISTANT PROFESSORS SPENCER and WESTLAND

MR. SANDERS

Requirements for the major and minor in journalism are listed on page 98.

- 111. Survey of Mass Communication. (3).**
Social background, scope, functions, and organization of modern communication media, with attention given to newspapers, magazines, motion pictures, radio, television, books, and comics.

- 112. Introduction to Modern Journalism. (3).**
A study of the development of current techniques of writing for publication, with emphasis on the American press.
- 200. Typography. (3).**
A lecture-laboratory study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided opportunities to practice the effective use of type and illustration in mass communication.
- 211. Elementary News Writing. (3).**
A study of news story structure and the factors that determine the value of news, with consideration given to both the theoretical and practical aspects of news gathering and reporting; lecture and laboratory sessions.
- 212. Reporting. (3).**
Gathering and writing news of the University community, with assignments arranged on *The Tiger Rag* or suburban newspapers, or with the University news bureau.
- 300. Advertising Production. (3).**
Principles of typography for advertising composition and display; layout, copyfitting, and type selection in laboratory. PREREQUISITE: Journalism 200.
- 312. Copyreading and Makeup. (3).**
Headline writing, editing practices, and newspaper and magazine page makeup, with *The Tiger Rag* used as a laboratory.
- 314. Advertising Copy Writing. (3).**
The principles of advertising psychology studied in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to practice in writing advertisements.
- 315. Advertising Sales. (3).**
Practical experience in the preparation and selling of completed advertisements; the student will service his own clients throughout the semester, using *The Tiger Rag* as a space medium.
- 322. Advanced Reporting. (3).**
Designed to develop further the complete reporter by building on foundations laid in Journalism 212; attention will be given to specialized reporting, including feature stories, sports, society, critical writing, and publicity.
- 325. Press Photography. (3).**
Taking pictures with the news camera, developing films, making enlargements, cropping and scaling for publication. Students should bring their own cameras. Open to non-majors with permission of the department chairman.
- 330. Radio News Writing and Editing. (3).**
The processing of news for radio, with attention given to radio news style and practice and the preparation of special-events reporting. One lecture per week and four hours per week working in the news rooms of Memphis radio stations.
- 332. Feature and Article Writing. (3).**
Techniques involved in writing the feature story; study of the magazine market and the specialized requirements of periodicals to which

stories are submitted; students will write and submit articles for publication in magazines and newspapers and for acceptance by syndicates.

340. Photojournalism. (3).

Selection and arrangement of illustrative material for newspapers and magazines; analysis, use and influence of the news picture; techniques of the picture story; and the role of the picture magazine in the field of communication.

360. Introduction to Television. (3).

A survey of the history of television, principles of transmission and reception of television signals, governmental and self-imposed regulations, and the responsibility of the telecaster; intended to develop an awareness of the social implications of television.

370. Television Writing. (3).

Writing scripts for telecasts of news, sports, interviews, special events, documentaries, and commercials, with special attention to the necessary studio operations.

380. The Magazine. (3).

Historical backgrounds, contents, purposes, and readership of general magazines, business and trade papers, and specialized journals, with practice in copy preparation, layout and pictorial display, and production processes.

401. Writing Projects. (1 to 3).

Internship for students who have completed basic journalism courses or whose experience has prepared them to handle the duties; students will work on the staff of *The Tiger Rag* or the *DeSoto*, or work in the office of the University news bureau, or will do approved research in journalism.

402. Writing Projects. (1 to 3).

A continuation of Journalism 401.

411. History of Journalism. (3).

A study of the origin and development of American journalism; students who enroll in this course should have completed History 221 and 222 or the equivalent.

412. The Editorial. (3).

The work of the editor and the editorial writer, with emphasis on editorial problems, methods, policies, and style.

413. Community Newspaper Management. (3).

A survey of the economic, social, and cultural aspects of small town daily and weekly newspapers, with emphasis on the role of the editor in community life.

421. Journalism in the Secondary Schools. (3).

Organization and direction of journalism courses in the high school; financial problems of high school publications and their relation to educational objectives; public relations and preparation of news releases for school administrators. Intended primarily for those students who expect to teach journalism or to supervise publications in the high school.

440. Literature of Journalism. (3).

A bibliographical approach to the field of mass communication, consisting of critical reading of selective works. PREREQUISITE: permission of the department chairman.

450. Public Relations. (3).

The development, scope, and modern role of public relations, with emphasis on case studies, lectures, and experimentation with major public relations tools and practices.

LATIN

(See CLASSICAL LANGUAGES)

LIBRARY SERVICE

(See CURRICULUM AND INSTRUCTION)

MANAGEMENT

PROFESSOR HERBERT JOHN MARKLE, *Chairman*
Room 100, *The School of Business Administration Building*

ASSOCIATE PROFESSORS FOX and LARRABEE

ASSISTANT PROFESSORS BOYD, SHARP, and TAYLOR

MR. EDGAR, MR. EMERSON, and MR. TEMPLETON

MRS. BERFIELD

Requirements for the major and minor in management are listed on page 111.

101. Introduction to Business. (3).

A survey course to acquaint beginning business students with the major institutions and practices in the business world, to provide the elementary concepts of business, and to act as an orientation course for selection of a specific major. Both semesters. Open to freshmen only.

271. Clerical Office Machines. (3).

Instruction and practice in the operation of the major types of adding and calculating machines; development of a working knowledge of the 10-key and full keyboard adding machine, key-driven and rotary calculators, and other mechanical office devices. Both semesters.

301. Business Law I. (3).

Nature and classification of law, contracts, negotiable instruments. Study of selected cases. Both semesters. PREREQUISITE: junior classification or permission of the instructor.

302. Business Law II. (3).

Business organization, personal property, trade regulations, with emphasis on case studies. Both semesters. PREREQUISITE: Management 301.

322. Labor Legislation. (3).

Historic and philosophic background for labor legislation with emphasis on recent legislation in the labor area and the effects of these laws on social and economic institutions. Spring semester. PREREQUISITE: Economics 321.

- 331. Real Estate. (3).**
Real estate law, property description, methods of transferring property, joint ownership, tax sales and title to property, inheritance of real property. Spring semester. **PREREQUISITE:** junior classification or permission of the instructor.
- 335. General Insurance. (3).**
Theory, practice, and problems involved with life, fire, marine, casualty, and surety insurance; rates and rating; actuarial activities. Fall semester. **PREREQUISITE:** junior classification or permission of the instructor.
- 341. Business Organization and Finance. (3).**
Promotion, organization, and financing of business enterprise; principles underlying selection of business form; structure and trends of American enterprise system; financial management; emphasis is placed on small and medium-sized enterprises. Both semesters. **PREREQUISITE:** Accounting 202.
- 345. Industrial Management I. (3).**
Development of scientific management; principles and mechanism of organization and management in manufacturing, including plant location and layout, mass production techniques, standardization conditions, and production controls. Spring semester. **PREREQUISITE:** Economics 321.
- 371. Business Statistics I. (3).**
Procedures of collection, analysis, presentation and interpretation of economic and business data. Both semesters. **PREREQUISITES:** Mathematics 122 or equivalent and Economics 211 and 212.
- 421. Personnel Administration. (3).**
Employer-employee relationship; job analysis; recruitment, selection, training, transfer, promotion, and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. Spring semester. **PREREQUISITE:** Economics 321 or permission of the instructor.
- 422. Collective Bargaining. (3).**
Labor-management relations from the standpoint of collective bargaining contracts, with emphasis on the process of negotiating agreements, including procedures, tactics, and subject matter. Fall semester. **PREREQUISITE:** Economics 321.
- 431. Real Estate Law. (3).**
This course covers law and legal instruments as applied to real estate and is designed to serve the needs of property owners and those engaged in the real estate business. **PREREQUISITE:** Management 302 and 331.
- 432. Real Estate Finance. (3).**
Examination and analysis of the sources of funds for financing all kinds of real estate transactions, including FHA and VA types. **PREREQUISITE:** Management 331.
- 433. Property Management. (3).**
The fundamentals of management of real estate; examination and analysis of problems, duties, and responsibilities of the property manager. **PREREQUISITE:** Management 331.

- 434. Real Estate Appraisal. (3).**
The fundamentals of appraising residential, commercial, and industrial real estate. PREREQUISITE: Management 432.
- 441. Corporation Finance. (3).**
Advanced treatment of financial management with emphasis on small and medium-sized enterprise and the forces underlying determination of policy; financial problems are considered in connection with re-funding, reorganization, mergers, and consolidations. Spring semester. PREREQUISITE: Management 341.
- 442. Management of Business Enterprise. (3).**
Consideration is given to over-all policy formation and practice in the operation of new and going business concerns, with emphasis on problems of nonfinancial management in the small firm. Fall semester. PREREQUISITE: Management 341.
- 443. Human Relations in Business. (3).**
A study of the principles of human relations as applied to business. PREREQUISITE: Management 441 or 442.
- 445. Industrial Management II. (3).**
A course devoted to solving typical problems that arise in the planning, layout, control, operation, and administration of a manufacturing enterprise. PREREQUISITE: three of the 300 courses in this major or permission of the instructor.
- 446. Systems Analysis. (3).**
A course designed to give an introduction to the characteristics of electronic machines and their use in computation and data processing. The objective is to give the student an understanding of the machines rather than to develop the advanced technical or mathematical aspects.
- 447. Production Control. (Same as Industrial Arts 447). (3).**
A study of the elements of production and their coordination emphasized by visits to industrial plants.
- 448. Plant Layout. (Same as Industrial Arts 448). (3).**
Study of industrial plants, with emphasis on floor plans and placement of facilities. PREREQUISITE: permission of the instructor.
- 449. Time and Motion Analysis. (Same as Industrial Arts 449). (3).**
Work simplification, including analysis of jobs and trades, as applied in time and motion. PREREQUISITE: Management 447.
- 471. Business Statistics II. (3).**
Extension of the range of topics covered in Business Statistics I to include methods of correlation, analysis of variance, forecasting, and general business research. Spring semester. PREREQUISITE: Management 371.
- 495. Management Problems. (1 to 3).**
Students will carry on approved research projects in his major area under supervision of staff members. Both semesters. PREREQUISITE: senior standing and permission of the department chairman.
- S-503. Law of Taxation of Estates, Inheritances, and Gifts. (3).**
A survey course of the law of taxation as applied to the transmission of property by gift or death and its impact upon accumulations

of wealth. The constitutional basis, statutory implementation, administrative regulation, and court interpretation of the laws of the United States and the various states. **PREREQUISITE:** Management 302.

S-505. Estate Planning. (3).

Estate planning from an individual viewpoint designed to create, maintain, and distribute the maximum estate possible. Consideration is given to the aspects of law, insurance, real estate, investments, and taxes as they relate to the creation of estates by individuals and those who will be engaged in assisting others. **PREREQUISITE:** Management 503.

S-541. Analysis and Control of Business. (3).

An overall study of management problems and the application of scientific management techniques to the control of various phases of business operation. Included are general management controls, financial management controls, sales management controls, production management controls, and personnel control and appraisal. **PREREQUISITE:** Management 441 and/or 442.

S-542. Advanced Management of Business Enterprise. (3).

The development of the top management viewpoint, the basic objective being to develop executive abilities and creative thinking. Selected problem areas of modern business will be explored, alternative courses of action appraised, and decision-making ability developed. **PREREQUISITE:** Management 442 and/or 441.

S-543. Seminar in Management. (3).

Special study of selected current problems in this area. For the most part individual studies will be pursued, with group analysis and discussion at regular class meetings. **PREREQUISITE:** permission of the instructor.

GRADUATE COURSES IN MANAGEMENT

The 400 and 500 courses described in the preceding section may be taken for graduate credit. For further details of the graduate program see the Bulletin of The Graduate School.

MARKETING

PROFESSOR CHARLES ROBERT SPINDLER, *Chairman*
Room 105, The School of Business Administration Building

PROFESSOR TONNING

ASSOCIATE PROFESSOR SUMMER

ASSISTANT PROFESSORS LOUISE CHAPMAN and INGRAM

MR. GORDON CHAPMAN and MR. MORSE

Requirements for the major and minor in marketing are listed on page 111.

301. Principles of Marketing. (3).

General survey of the marketing structure; development, functions, costs, institutions, and pricing policies. Both semesters. **PREREQUISITES:** Economics 211 or permission of the instructor.

- 314. Advertising Copy Writing.** (Same as Journalism 314). (3).
The principles of advertising psychology in relation to the proved techniques for writing effective copy; approximately half of the course is devoted to laboratory practice in writing advertisements.
- 315. Advertising Design I.** (Same as Art 315). (3).
An introductory course in the methods and techniques of advertising layout. Practical problems involving rough, presentation, and finished art work in connection with newspaper, magazine, and direct-mail advertising.
Two lecture, two laboratory hours per week.
- 316. Advertising Design II.** (Same as Art 316). (3).
A continuation of Advertising Design I.
Two lecture, two laboratory hours per week.
- 321. Marketing Farm Products.** (3).
Functional, commodity, and institutional problems concerned with marketing farm products including the roles of farmers, cooperatives, government, and food processing industries; and the roles of wholesalers and retailers of food products in getting these products to the ultimate consumer. Spring semester. PREREQUISITE: Marketing 301.
- 351. Principles of Advertising.** (3).
General survey of the field of advertising including agencies, media, layout, typography, and copy. Both semesters. PREREQUISITE: Marketing 301 or permission of the instructor.
- 352. Advanced Advertising.** (3).
A study of the various phases of advertising with practical applications of advertising methods and procedures. Both semesters. PREREQUISITE: Marketing 351.
- 358. Advertising Law and Business Ethics.** (3).
Federal, state, and municipal laws and ordinances affecting advertising; self-regulation by business; review of origin and development of advertising clubs, better business bureaus, and trade and professional organizations.
- 361. Salesmanship.** (3).
Basic principles underlying the sales process with actual sales demonstrations and projects in selling. Both semesters. PREREQUISITE: Economics 211.
- 362. Sales Theory and Techniques.** (3).
Survey of the literature on salesmanship; creative thinking sessions; portfolio preparation; and demonstrations of "role playing" in the selling function. Spring semester. PREREQUISITE: Marketing 361.
- 366. Sales Promotion.** (3).
A study of promotional methods used at the various marketing levels, including planning, media, publicity, displays, contests, and other sales promotion aids. Fall semester. PREREQUISITE: Marketing 361 or permission of the instructor.
- 381. Principles of Retailing.** (3).
Fundamental principles underlying the successful operation of a retail business. Both semesters. PREREQUISITE: Marketing 301.

- 382. Buying and Pricing. (3).**
A study of the problems confronting retailers, wholesalers, and other middlemen in properly estimating customer demand; ascertaining sources of supply; negotiating price and terms with resource; and pricing for resale. Both semesters. PREREQUISITE: Marketing 381.
- 401. Marketing Administration. (3).**
A case study of actual business marketing problems and the techniques used to solve them. Both semesters. PREREQUISITE: Marketing 301.
- 421. Wholesale-Industrial Marketing. (3).**
A study of problems and policies of wholesale and industrial organizations related to their marketing efforts with emphasis on channels of distribution. Fall semester. PREREQUISITE: Marketing 401.
- 422. Purchasing. (3).**
A study of the organization, principles, policies, procedures and techniques used in effective and efficient procurement by business and industry. Spring semester.
- 425. Product Planning. (3).**
Study of a product from the idea stage to placement of the product satisfactorily in the market place. Spring semester. PREREQUISITE: Marketing 401.
- 428. International Marketing. (3).**
A study of the bases and promotion of foreign trade; international marketing organizations and methods; technical and financial features of international marketing. Fall semester.
- 429. Work Experience in Physical Distribution. (3 or 6).**
Seniors majoring in physical distribution, after receiving approval of the marketing staff, will obtain actual experience by working a minimum of 200 semester hours in approved marketing or distributing organization. Both semesters.
- 435. Cotton Marketing. (3).**
Cotton as a special commodity is traced through the stages of production, processing, and marketing in the raw state; spinning and weaving or knitting; finishing; fabrication; and distribution at the wholesale and retail levels. Fall semester. PREREQUISITE: Marketing 401 or permission of the instructor.
- 439. Work Experience in Wholesale-Industrial Marketing. (3 or 6).**
Seniors majoring in wholesale-industrial marketing, after receiving approval of the marketing staff, will obtain actual experience by working a minimum of 200 hours in approved wholesale or industrial distributing organizations. Both semesters.
- 454. Industrial Advertising. (3).**
A study of advertising procedures and techniques which are especially useful to production industry; primary emphasis is placed upon trade papers and catalogs. Spring semester. PREREQUISITE: Marketing 352.
- 455. Television and Radio Advertising. (3).**
A study of the structure of the commercial broadcasting systems of this country; methods of creating radio and television programs and

commercials; campaign and broadcast management; media research. Fall semester. PREREQUISITE: Marketing 352 or permission of the instructor.

- 456. Retail Advertising, Display and Promotion. (3).**
A study of advertising procedures and techniques which are especially valuable to the retailer; techniques of display and promotion. Fall semester. PREREQUISITE: Marketing 382.
- 458. Advertising Agency Management. (3).**
A study of the organization and activities of advertising agencies including management responsibilities, time and space buying, media selection, account executive activities, advertising research, creativity, merchandising, and production supervision. PREREQUISITE: Marketing 454 or permission of the instructor.
- 459. Work Experience in Advertising. (3 or 6).**
Seniors majoring in advertising, after receiving approval of the marketing staff, will obtain actual experience by working a prescribed number of hours in approved advertising agencies or media. Both semesters.
- 461. Sales Management. (3).**
Problems confronting the sales executive, including control and management of the sales force. Fall semester. PREREQUISITE: Marketing 361.
- 462. Sales Supervision and Training. (3).**
A balanced study of two sales management problem areas—sales training techniques and field sales supervision. Textbooks and trade literature are surveyed and compared with practice in current usage. Spring semester. PREREQUISITE: Marketing 461.
- 469. Work Experience in Sales. (3 or 6).**
Students who are majoring in sales, after receiving approval of the marketing faculty, will obtain actual experience by working a prescribed number of hours in sales activities in approved organizations. Both semesters.
- 481. Home Furnishing and Equipment. (Same as Home Economics 481). (3).**
Principles of design and color theory applied to the selection and arrangement of the house and its furnishing.
One lecture, four laboratory hours per week.
- 482. Retail Policies and Problems. (3).**
A study of the problems which retailers are currently facing and an analysis of the policy decisions they must make to meet these problems effectively. Spring semester. PREREQUISITES: Marketing 381, 382.
- 485. Credit and Collections. (3).**
System of credit and collections employed today, significance of credit information, management of charge accounts and credit, and collection correspondence. Spring semester. PREREQUISITE: Marketing 301.
- 489. Work Experience in Retail Management. (3 or 6).**
Seniors majoring in retailing, after receiving approval of the market-

ing staff will obtain actual experience by working a minimum of 200 hours in approved distributive organizations. Both semesters.

491. Marketing Research. (3).

Research methods and procedures used in the field of marketing to help solve marketing problems. Spring semester. PREREQUISITES: Marketing 401, Management 371.

495. Problems in Marketing. (3).

Open only to seniors.

(The following are graduate courses for which undergraduates within 36 semester hours of graduation may enroll.)

S-502. Marketing Management. (3).

A study of policy determination and functions of the senior marketing executive with reference to delegation of authority; responsibilities of line and staff personnel; planning for growth; and interpreting marketing trends.

S-521. Pricing and Price Policies. (3).

An examination of the role of price in our economy; the problem of price making under conditions of competition, monopoly, monopolistic competition, and the like, with emphasis on the problems of nonprice competition.

S-592. Applied Marketing Research. (3).

Development and application of research procedures to actual business problems. PREREQUISITE: Marketing 491 or permission of the instructor.

GRADUATE COURSES IN MARKETING

(Numbers prefixed with "G" identify undergraduate courses described in the preceding section for which graduate credit may be given. For further details of the graduate program see the Bulletin of The Graduate School.)

G-401. Marketing Administration. (3).

G-421. Wholesale-Industrial Marketing. (3).

G-422. Purchasing. (3).

G-425. Product Planning. (3).

G-428. International Marketing. (3).

G-435. Cotton Marketing. (3).

G-454. Industrial Marketing. (3).

G-456. Retail Advertising, Display and Promotion. (3).

G-458. Advertising Agency Management. (3).

G-461. Sales Management. (3).

G-462. Sales Supervision and Training. (3).

G-482. Retail Policies and Problems. (3).

G-485. Credit and Collections. (3).

G-491. Marketing Research. (3).

502. Marketing Management. (3).

521. Pricing and Price Policies. (3).

592. Applied Marketing Research. (3).

MATHEMATICS

PROFESSOR HOWARD S. KALTENBORN, *Chairman*

Room 300, Administration Building

ASSOCIATE PROFESSORS ANDERSON, McBRIDE, and STEPHENS

ASSISTANT PROFESSORS BETHANY, POOLE, POTTER, REEVES, STREET,
and WALKER

MR. FARRIMOND, MR. HEEN, MRS. KALTENBORN, MR. PREWITT,

MR. WAGGONER, and MR. WINFREY

MRS. RARIDON and MR. WHEAT

Requirements for the major and minor in mathematics are listed on page 98. Mathematics requirements in various schools of the University may be satisfied as follows:

To fulfill the science requirement for the bachelor's degree in The School of Arts and Sciences:

- a. If the student presents two or more units in mathematics from high school: Mathematics 122 and any higher-numbered course in mathematics
- b. If the student presents less than two units in mathematics from high school: Mathematics 121 and any higher-numbered course in mathematics

To fulfill the requirement for the bachelor's degree in The School of Business Administration: 3 semester hours in a mathematics course numbered above 121.

Mathematics requirements for the bachelor's degree in The School of Education and for teacher certification are listed on page 118.

101. Mathematical Concepts. (3).

Axiomatic development of number system; extension of the concept of numbers; basic operations of arithmetic with emphasis on use of axioms; sets and relations; deductive reasoning. *This course does not satisfy any part of the one-year science requirement for graduation in The School of Arts and Sciences.*

102. Mathematical Concepts. (3).

A continuation of Mathematics 101. Measurement; approximate numbers; simple and compound interest; basic concepts of geometry; introduction to analytic geometry; functions and graphs. *This course does not satisfy any part of the one-year science requirement for graduation in The School of Arts and Sciences.*

121. Basic Mathematics. (3).

Fundamental operations of arithmetic and algebra; exponents and logarithms; factoring, fractions; linear equations; verbal problems. *Credit for this course toward graduation in any school of the University is contingent on subsequent successful completion of either Mathematics 122 or Mathematics 141. This course may not be counted as any part of the one year science requirement for graduation in The School of Arts and Sciences by the student who offers two or more units in mathematics for entrance.*

- 122. Basic Mathematics. (3).**
Quadrant equations; binomial theorem; trigonometric functions; probability; statistical processes. PREREQUISITE: Mathematics 121 or qualifying test.
- 141. College Algebra and Trigonometry. (5).**
PREREQUISITE: Mathematics 121 or qualifying test.
- 211. Analytic Geometry and Calculus. (5).**
Essentials of analytic geometry with an introduction to calculus, including the nature of derivatives, differentiation of algebraic functions and elementary applications. PREREQUISITE: Mathematics 141 or qualifying test.
- 212. Calculus. (5).**
Differentiation of transcendental functions; differentials; applications of differentiation; definite integral; technique of integration. PREREQUISITE: Mathematics 211.
- 301. Mathematics of Finance. (3).**
Compound interest and annuities, with applications; introduction to mathematics of life insurance. PREREQUISITE: Mathematics 122 or 141.
- 302. Finite Mathematics. (3).**
Symbolic logic; elementary theory of sets; probability theory; vectors; linear programming. PREREQUISITE: Mathematics 122 or 141.
- 312. Calculus. (5).**
Continuation of Mathematics 212. Applications of definite integral; power series; partial differentiation; multiple integrals. PREREQUISITE: Mathematics 212.
- 321. Elementary Statistics. (3).**
Basic statistical concepts; elementary probability theory; normal curve and applications; linear, multiple and partial correlation; statistical inference. PREREQUISITE: Mathematics 122 or 141, or Management 371.
- 322. Applied Statistics. (3).**
Methods of analysis; sampling; runs; tests of hypotheses concerning mean, variance and randomness; quality control; confidence intervals; chi-square test; applied problems. PREREQUISITE: Mathematics 321.
- 331. Probability. (3).**
Classical probability theory; stochastic variables; joint distributions; probability density functions; limit theorems; practical applications. CO-REQUISITE: Mathematics 312.
- 401. Foundations of Mathematics. (3).**
Symbolic logic; the postulational method; the real number system; set theory; inequalities; limits. PREREQUISITE: Mathematics 212.
- 411. Applied Mathematics. (3).**
Differential equations with applications. PREREQUISITE: Mathematics 312.
- 412. Applied Mathematics. (3).**
Elliptic integrals; Gamma and Beta functions; Bessel functions; Fourier series; Laplace transform. PREREQUISITE: Mathematics 411.

- 421. History of Mathematics. (3).**
The development of mathematics from the earliest times to the present; problem studies; parallel reading and class reports. PREREQUISITE: Mathematics 401. *Offered in 1963-64 and alternate years.*
- 422. Theory of Numbers. (3).**
Number theoretic functions; congruences; quadratic residues; Dio-phantine equations; continued fractions. PREREQUISITE: Mathe-matics 401. *Offered in 1962-63 and alternate years.*
- 441. Algebraic Theory. (3).**
Theory of groups, rings and fields, with applications. PREREQUI-SITE: Mathematics 401. *Offered in 1962-63 and alternate years.*
- 442. Matrix Theory. (3).**
Matrix operations; equivalence, congruence and similarity of matrices; linear algebras; vector spaces; Boolean algebra. PREREQUISITE: Mathematics 401. *Offered in 1962-63 and alternate years.*
- 461. Geometric Theory. (3).**
Foundations of geometry; extensions of Euclidean geometry; non-Euclidean geometry; introduction to projective geometry. PRE-REQUISITE: Mathematics 401. *Offered in 1963-64 and alternate years.*
- 471. Advanced Calculus. (3).**
Continuous functions; mean value theorems; partial differentiation with applications; multiple integrals with applications; infinite series; power series; improper integrals. PREREQUISITES: Mathematics 312, 401. *Offered in 1963-64 and alternate years.*

GRADUATE COURSES IN MATHEMATICS

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the Bulletin of The Gradu-ate School.)

- *G-401. Foundation of Mathematics. (3).**
- G-421. History of Mathematics. (3).**
- G-422. Theory of Numbers. (3).**
- G-441. Algebraic Theory. (3).**
- G-442. Matrix Theory. (3).**
- G-461. Geometric Theory. (3).**
- G-471. Advanced Calculus. (3).**
- 500. Recent Advances in General Mathematics for High School Science Teachers. (3).**
- *501. Introduction to Modern Mathematics. (3).**
- 511. Modern Algebra for High School Teachers. (3).**
- 512. Modern Geometry for High School Teachers. (3).**
- 513. Probability and Statistical Applications. (3).**
- 521. Seminar in the Teaching of Algebra. (1).**
- 522. Seminar in the Teaching of Geometry. (1).**
- 523. Seminar in the Teaching of Advanced High School Mathematics. (1).**

*Credit may be earned in only one of the following courses: Mathematics G-401, Mathema-tics 501.

MODERN LANGUAGES

ASSISTANT PROFESSOR CHARLES E. LONG, *Acting Chairman*
Room 206, Jones Hall

ASSOCIATE PROFESSORS HEATHERLY, MULLOY, and PELL

MR. BREWER, MR. DAILEY, and MRS. PULLEN

MRS. BATCHELOR, MRS. BILES, MRS. BUELL, MRS. DEUTSCH,
RABBI GOLDMAN, MRS. MILLER, and MRS. SPRUELL

The Department of Modern Languages offers majors and minors in French, German, and Spanish; requirements are listed on page 99.

Details of the specific requirements in foreign languages for the various degrees offered by the University are explained on page 88. Students should note carefully the following statements of the University policy:

1. A student who has completed two or more units in high school in one foreign language will not receive credit at Memphis State University for the first year (the courses numbered 111 and 112) of that language.
2. A student may not receive credit for anything less than *two* semesters (six semester hours) in beginning courses (those numbered 111 and 112) in one foreign language; for example, he will receive no credit, elective or otherwise, for French 111 unless he completes French 112 or a higher numbered course in French. Credit will be allowed for a single semester's work in courses numbered above 199 and for a single semester of Hebrew.
3. Foreign-born students may receive credit for courses in their mother tongue and its literature only (1) for courses taken in native institutions of college level, or (2) for upper-division courses taken at Memphis State University or in another English-speaking institution of approved standing.
4. Any student who feels that he is already prepared in a foreign language may meet the graduation requirements and/or the lower-division requirements for a major or minor (but may *not* receive semester-hour credit) by passing a proficiency examination to be given by the Department of Modern Languages; requests for such examinations should be addressed to the chairman of that department. This provision does not apply to the native tongues of foreign-born students. (See #3 above.)

FRENCH

IMPORTANT NOTE: *All students enrolled in an elementary course in French (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for French Laboratory 111 or 112, which requires one scheduled hour each week with a foreign assistant and one scheduled hour in the laboratory.*

111. Elementary French. (3).

Elements of grammar and pronunciation, elementary conversation, and the reading of simple selections.

- 112. Elementary French. (3).**
A continuation of French 111, completing the study of elementary French grammar, elementary conversation and the reading of simple French texts such as *Le Petit Prince* by St. Exupéry.
- 211. Intermediate French. (3).**
A review of French grammar with composition, conversation, and the reading of French short stories, designed to increase the student's vocabulary and to contribute to his mastery of idiomatic constructions.
- 212. Intermediate French. (3).**
A continuation of French 211, with greater emphasis on accuracy in oral and written expression and reading for comprehension.
- 311. Survey of French Literature. (3).**
Introduction to the civilization of France through lectures and the reading of representative literary works and writers from the beginnings through the eighteenth century.
- 312. Survey of French Literature. (3).**
A continuation of the study of French civilization through lectures and reading of representative works of the major writers in the nineteenth and twentieth centuries.
- 321. Conversation and Composition. (3).**
A review of grammatical principles and their application in speaking and writing.
- 322. Conversation and Composition. (3).**
A continuation of French 321.
- 331. The Seventeenth Century. (3).**
A study of the underlying principles of French Classicism in general and of the theatre in particular, with emphasis on works of Corneille, Molière, and Racine and their relationship to the critical theories of Boileau.
- 332. The Seventeenth Century. (3).**
A study of the representative works in the classical genres, emphasizing the later masterpieces of Molière and Racine, and selected works of Mme. de La Fayette, La Fontaine, Mme. de Sévigné, La Bruyère, and La Rochefoucauld.
- 411. The Modern French Novel. (3).**
The French novel from the Revolution to the twentieth century, treating the movements of Romanticism, Realism, and Naturalism as they are reflected in the works of such authors as Balzac, Stendhal, Flaubert, and Zola.
- 412. The Contemporary French Novel. (3).**
A general survey of the twentieth-century French novel, treating the works of such authors as Proust, Gide, Mauriac, Malraux, Sartre, Camus, Maurois, and others.
- 421. The Modern French Drama. (3).**
French drama from 1800 to 1870, including such authors as Hugo, de Vigny, de Musset, Scribe, Augier, and Dumas *fils*.
- 422. The Contemporary French Drama. (3).**
From Bècque and his school, the *Théâtre Libre*, and Rostand to the present, with emphasis on the twentieth century drama and such play-

wrights as Pagnol, Claudel, Tristan Bernard, Giraudoux, Anouilh, Montherlant, Camus, Sartre, Cocteau, and others.

- 441. The Eighteenth Century. (3).**
The novel from Lesage through the eighteenth century and the drama from Lesage through the theatre of Beaumarchais.
- 442. Liberal Ideas in the Eighteenth Century. (3).**
Study of philosophical thought from the revocation of the Edict of Nantes to the French Revolution, with attention given to Bayle, Montesquieu, Voltaire, Diderot, and Rousseau.
- 451. Nineteenth-Century Poetry. (3).**
French poetry from Chenier through the Parnassians and the Symbolists.

GERMAN

IMPORTANT NOTE: All students enrolled in an elementary course in German (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for German Laboratory 111 or 112, which requires one scheduled hour each week with a foreign assistant and one scheduled hour in the laboratory.

- 111. Elementary German. (3).**
Extensive drill in pronunciation, elementary conversation, and aural understanding, and in translating the oral and written language.
- 112. Elementary German. (3).**
A continuation of German 111 devoted to further extensive drill in the fundamentals.
- 211. Intermediate German. (3).**
A comprehensive review of German grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to German literature.
- 212. Intermediate German. (3).**
A continuation of German 211, with further reading in German literature designed to enlarge the student's vocabulary and improve his pronunciation.
- 222. Scientific German. (Formerly German 322). (3).**
Readings in medical and scientific German. **PREREQUISITE:** German 211.
- 311. Survey of German Literature. (3).**
A survey of German literature from the beginnings to the Reformation.
- 312. Survey of German Literature. (3).**
A continuation of German 311, from the Reformation to the early Classicists.
- 331. German Conversation. (Formerly German 421).**
Conversations devoted chiefly to material dealing with modern Germany.
- 332. German Composition and Advanced Grammar. (3).**
Translation of English prose into German, with attention given, when necessary, to difficult points of grammar.

- 353. Nineteenth-Century Prose. (3).**
The shorter works of Tieck, Arnim, Kleist, Eichendorff, Meyer, and others.
- 354. Nineteenth-Century Poetry. (3).**
Poetic works of Klopstock, Novalis, Heine, Uhland, and others.
- 355. Nineteenth Century Drama. (3).**
Selected plays of Kleist, Grillparzer, and Hebbel.
- 411. The Classical Period. (3).**
Selected plays by Lessing and Schiller, with lectures on the historical, literary, and philosophical backgrounds.
- 412. The Classical Period. (3).**
The major plays and certain prose works of the young Goethe read and discussed in the light of the age and of the author's development.
- 451. Contemporary Prose and Poetry. (3).**
Analysis and discussion of the short stories of Hauptmann, Mann, Schnitzler, Kafka, and others; and the lyrics of Hofmannsthal, Rilke, George, Benn, and others.
- 452. Contemporary Drama. (3).**
Analysis and discussion of plays by Hauptmann, Toller, Kaiser, Paul Ernst, and others.

HEBREW

IMPORTANT NOTE: Courses in Hebrew are offered for elective credit only and will not satisfy any part of the foreign language requirement for the baccalaureate degree. Credit will be allowed for a single semester.

- 111. Elementary Hebrew. (3).**
An introduction to the Semitic family of languages through Hebrew; the Hebrew alphabet, synthetic morphology in word structure, simple syntax, introduction to composition, reading and writing in Hebrew script.
- 112. Elementary Hebrew. (3).**
Conjugation of simple verbs, the active and passive voices, introductory conversation, composition, and the Hebrew short story.

RUSSIAN

- 111. Elementary Russian. (3).**
Extensive drill in the principles of grammar with practice in pronunciation, elementary conversation and aural understanding, and translation.
- 112. Elementary Russian. (3).**
A continuation of Russian 111, devoted to further extensive drill in the fundamentals.
- 211. Intermediate Russian. (3).**
A comprehensive review of Russian grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Russian literature.
- 212. Intermediate Russian. (3).**
A continuation of Russian 211, with further reading in Russian literature designed to enlarge the student's vocabulary and improve his pronunciation.

SPANISH

IMPORTANT NOTE: *All students enrolled in an elementary course in Spanish (111, 112) must spend one hour each week in the language laboratory, for which no extra credit is granted. A student may, however, gain one hour credit if he registers for Spanish Laboratory 111 or 112, which requires one scheduled hour each week with a foreign assistant and one scheduled hour in the laboratory.*

- 111. Elementary Spanish. (3).**
Extensive drill in the principles of grammar, with exercises in pronunciation, elementary conversation and aural understanding, and translation of the oral and written language.
- 112. Elementary Spanish. (3).**
A continuation of Spanish 111, with further extensive drill in the fundamentals.
- 211. Intermediate Spanish. (3).**
A comprehensive review of Spanish grammar, with readings and exercises designed to increase the student's vocabulary, contribute to his mastery of idiomatic constructions, and introduce him to Hispanic literature.
- 212. Intermediate Spanish. (3).**
A continuation of Spanish 211, with further reading in Hispanic literature designed to enlarge the student's vocabulary and improve his pronunciation.
- 311. Survey of Spanish Literature. (3).**
Formation of the Spanish language and literature, with readings of representative works to illustrate principal periods and genres from the beginnings to 1700.
- 312. Survey of Spanish Literature. (3).**
A continuation of Spanish 311, covering Neoclassicism, Romanticism *costumbrismo*, Realism, Naturalism, contemporary literature, and present trends.
- 321. Advanced Composition and Conversation. (3).**
Oral practice on common expressions, followed by written composition and oral discussion on themes pertinent to Hispanic life and literature.
- 322. Advanced Composition and Conversation. (3).**
A continuation of Spanish 321, with emphasis on written composition and oral reports on topics related to contemporary Hispanic literary and political affairs. **PREREQUISITE:** Spanish 321, or permission of the instructor.
- 341. Survey of Spanish-American Literature. (3).**
A survey of Spanish-American literature from the Colonial Period to the end of the period of Romanticism.
- 342. Survey of Spanish-American Literature. (3).**
A survey of Spanish-American literature from the beginnings of Modernism to the present.
- 412. Contemporary Spanish Prose. (3).**
A detailed study of *costumbrismo*, the novel of Realism and Naturalism, and the prose of the Generation of 1898 and after. **PREREQUISITES:** Spanish 311 and 312, or permission of the instructor.

- 413. Contemporary Spanish Poetry and Drama. (3).**
Detailed study of Spanish poetry and drama of the nineteenth and twentieth centuries. PREREQUISITES: Spanish 311 and 312, or permission of the instructor.
- 415. The Golden Age. (3).**
A detailed study of Spanish lyric poetry and drama up to 1700. PREREQUISITES: Spanish 311 and 312, or permission of the instructor.
- 416. The Golden Age. (3).**
A detailed study of Spanish prose up to 1700. PREREQUISITES: Spanish 311 and 312, or permission of the instructor.
- 421. Spanish-American Drama, Poetry, and Essay. (3).**
A critical study of the development of the drama and poetry of Spanish-America in comparison with and in contrast to the drama and poetry of Spain, and a study of the Spanish-American essay in its political and sociological as well as its literary aspects.
- 422. Spanish-American Short Story. (3).**
A critical analysis of Spanish-American short stories as they reflect predominant social and ethical problems, and the authors' responses to literary influences from Europe and North America.
- 423. Spanish-American Novel. (3).**
A critical study of representative works by such novelists as Fernandez de Lizardi, Blest Gana, Isaacs, and Guiraldes.

MUSIC

PROFESSOR GEORGE JONES HARRIS, *Chairman*
Room 172, Administration Building

PROFESSOR EAHEART

ASSISTANT PROFESSORS FERGUSON, SCOTT, and SMIT

MRS. COBB, MR. DE FRANK, MR. GILBERT, MR. HALE, MRS. MAXWELL
MR. ROBERTSON, MRS. TAYLOR, MR. TERRY, and MR. VERGOS

Requirements for the major and minor in music are listed on page 99; the program for the Bachelor of Music degree is outlined on page 93. Requirements for the major and minor in music education are listed on page 121.

I. THEORY, COMPOSITION, HISTORY, and LITERATURE

- 110. Introduction to Music. (4).**
A bilateral approach to music through (1) a general study of the history of music with emphasis on cultural backgrounds and (2) training in the aural and visual aspects of scales, intervals, and rhythmic patterns.
Three lecture, two laboratory hours per week.

IMPORTANT NOTE: *Students registering for any of the following four theory courses must schedule both the A and B sections; together these sections constitute a correlated study of the rudiments of music, including harmony, counterpoint, homophonic forms, sight-singing, and ear-training.*

111A. Music Theory I. (3).

Traditional harmony including major and minor scales and triads in all positions in four-part writing. **PREREQUISITES:** Music 110 and Music Education 128, or equivalent ability.

111B. Aural Music Theory I. (1).

Sight-singing and ear-training using the unison material studied in Music 111A; keyboard harmony. **COREQUISITE:** Music 111A.

Two laboratory hours per week.

112A. Music Theory I. (3).

Continuation of Music 111A up to and including the dominant seventh chord; non-chordal tones; two-part counterpoint; harmonic analysis.

112B. Aural Music Theory I. (1).

Continuation of Music 111B with more difficult unison and easier two-, three-, and four-part material correlated with Music 112A. **COREQUISITE:** Music 112A.

Two laboratory hours per week.

211A. Music Theory II. (3).

Continuation of Music 112A with attention to secondary seventh chords; modulation to related keys; instrumental style.

211B. Aural Music Theory II. (1).

Continuation of Music 112B with classwork correlated with Music 211A. **COREQUISITE:** Music 211A.

Two laboratory hours per week.

212A. Music Theory II. (3).

Continuation of Music 211A with introduction of altered and highly dissonant chord material; advanced modulation.

212B. Aural Music Theory II. (1).

Continuation of Music 211B with classwork correlated with Music 212A. **COREQUISITE:** Music 212A.

301. Counterpoint. (3).

A study of the modal contrapuntal technique of the sixteenth century; writing in two and three parts in the style of Palestrina and Lassus; analysis. **PREREQUISITES:** Music 112A and 112B.

302. Canon and Fugue. (2).

A study of contrapuntal techniques and the fundamentals of canonic writing; invention, chorale elaboration, two-part canon; analysis of works in contrapuntal style of the eighteenth century. **PREREQUISITE:** Music 301. (*Individual instruction with added fees as for applied music.*)

303. Canon and Fugue. (2).

Multiple-voiced canons; study and writing of the fugue as a form and a style in various media; analysis of contrapuntal literature. **PREREQUISITE:** Music 302. (*Individual instruction with added fees as for applied music.*)

305. Composition. (2).

Free composition in the smaller forms for piano, voice, and chorus; a study of style and analysis of master works. **PREREQUISITE:** instructor's permission. (*Individual instruction with added fees as for applied music.*)

- 306. Composition. (2).**
Free composition in the smaller forms and sonatina form for piano, voice, chorus, and small ensembles; style and analysis. PREREQUISITE: Music 305 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)
- 308. Form and Analysis. (3).**
A study of the basic principles underlying the formal structure of music; analyses of outstanding examples of the suite, sonata, and symphony. PREREQUISITES: Music 112A and 112B.
- 315. Instrumentation. (3).**
A study of the compass, possibilities, and tonal characteristics of orchestral and band instruments; arranging of various types of compositions for string, woodwind, and brass ensembles; arranging of piano, organ, and choral compositions for full orchestra; transcriptions of selected works for band. PREREQUISITES: Music 112A and 112B.
- 317. Conducting and Score Reading. (3).**
Fundamentals of conducting in both choral and instrumental fields; individual practice in conducting with the opportunity for each student to conduct vocal and instrumental groups. PREREQUISITES: Music 112A and 112B.
- 319. Music Appreciation. (3).**
An introduction to music through a study of its literature and history; significant compositions are oriented to their proper social, cultural, economic, and political settings in order to bring about the most effective understanding and enjoyment of the music. Open without prerequisite to non-music majors of junior and senior standing.
- 401. History of Music to 1600. (3).**
A study of the development of the significant musical styles with special attention to the individual contributions of the major composers. PREREQUISITE: permission of the instructor.
- 402. History of Music since 1600. (3).**
A continuation of Music 401. PREREQUISITE: permission of the instructor.
- 405. Composition II. (2).**
Determination of individual style through practical application of contemporary compositional techniques; free composition in the larger forms; analysis of important contemporary compositions. PREREQUISITES: Music 306 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)
- 406. Composition II. (2).**
Free composition in all forms in various media; contemporary adaptations of older forms; calligraphy and preparation of manuscripts; analysis of contemporary works. PREREQUISITE: Music 405 and permission of the instructor. (*Individual instruction with added fees as for applied music.*)
- 407. Study and Travel in Music. (3 or 6).**
Specialized study and travel under the direction of a faculty member of the Department of Music; a tour of the larger cities of Europe

provides for attendance at concerts, visits to museums and other places of cultural importance.

411. Comparative Arts. (3).

Cultural activities in their interrelation with each other and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing.

412. Modern Music. (3).

Contemporary music and composers from Debussy to the present time, including the works of Stravinsky, Bartok, Hindemith, Schoenberg, and American contemporaries. Open without prerequisite to non-music majors of junior and senior standing.

413. The Opera and the Music Drama. (3).

A survey of the opera before Richard Wagner; study of Wagner's music dramas and operas of his contemporaries; dramatic and musical significance of each phase of the development of the two forms. Open without prerequisite to non-music majors of junior and senior standing.

414. Piano History, Literature, and Pedagogy. (3).

A study of keyboard literature from an historical and pedagogical point of view; emphasis on style and the development of keyboard technique from the time of the harpsichord composers to the present, with practical applications to piano teaching. Open to music and non-music majors with some keyboard facility and to piano teachers.

417. Choral Techniques. (3).

Organizing and developing accompanied and unaccompanied choral groups at all levels; rehearsal procedures; materials; conducting. **PREREQUISITE:** Music 317.

418. Sacred Music I. (3).

Music in the history of the Protestant church; hymnology and the performance of hymns; church choir organization; planning the service; organ and choral repertory. Open without prerequisite to non-music majors of junior or senior standing.

419. Sacred Music II. (3).

The development and present significance of Roman, Lutheran, and Anglican liturgical music; its relationship to the worship services of non-liturgical denominations. Open without prerequisite to non-music majors of junior or senior standing.

II. APPLIED MUSIC (INDIVIDUAL LESSONS)

Applied music is offered at three levels: (1) preparatory, (2) lower division, and (3) upper division. Lessons are given by members of the University faculty and by special instructors. Practice facilities are provided without charge, but there are additional fees for the individual lessons.

FEES: See page 54, Fees and Expenses. Fees are paid to the University at the office of the Business Manager.

REGISTRATION: Students will register for individual lessons in the same manner and at the same time as they register for other courses. Any inquiries concerning credits or course numbers should be directed to the chairman of the Department of Music.

CREDITS AND GRADES: One semester hour credit will be granted for one thirty-minute lesson weekly; two semester hours credit will be granted for two thirty-minute lessons weekly. Practice hours will be assigned by the instructor to meet the needs of the student. Grades are awarded on the same basis and have the same significance as in other subjects.

EXAMINATIONS: For an examination in applied music, each student will prepare and perform for members of the faculty of the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations will be held in the Music Hall on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

PREPARATORY COURSES

Regardless of his initial degree of advancement, any student of the University may register for individual lessons at the preparatory level except in organ; organ students must have the ability to play the piano before beginning organ instruction.

- 050. Piano. (1 or 2).
- 051. Organ. (1 or 2).
- 052. Stringed Instrument. (1 or 2).
- 054. Woodwind Instrument. (1 or 2).
- 056. Brass Instrument. (1 or 2).
- 059. Voice. (1 or 2).

LOWER-DIVISION COURSES

Applied music courses in the lower division include the study normally carried out during the freshman and sophomore years. The piano or instrumental student at this level should have had several years of intensive study prior to University entrance so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this level provided that they play the piano well and have reasonable ability in sight reading. Requirements for admission to voice study at this level can best be determined by the instructor for the individual student.

Students who fall short of the requirements for admission to the lower-division courses will be advised to register for preparatory courses until deficiencies are eliminated. Course numbers will be repeated for each semester of study.

- 150. Piano. (1 or 2).
- 151. Organ. (1 or 2).
- 152. Stringed Instrument. (1 or 2).
- 154. Woodwind Instrument. (1 or 2).
- 156. Brass Instrument. (1 or 2).
- 159. Voice. (1 or 2).

UPPER-DIVISION COURSES

Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only on the recommendation of the instructor; such a recommendation will be made only if the student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

- 350. Piano. (1 or 2).
- 351. Organ. (1 or 2).
- 352. Stringed Instrument. (1 or 2).
- 354. Woodwind Instrument. (1 or 2).
- 356. Brass Instrument. (1 or 2).
- 359. Voice. (1 or 2).

III. SMALL ENSEMBLES AND CHAMBER MUSIC

Advanced students are encouraged (and for certain degree plans are required) to participate in these groups. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

- 360. Piano Ensemble. (1).
- 362. String Ensemble. (1).
- 364. Woodwind Ensemble. (1).
- 365. Stage Band. (1).
- 366. Brass Ensemble. (1).
- 367. Opera Soloists. (1).
- 368. Opera Workshop. (1).
- 369. Madrigal Group. (1).

IV. LARGE MUSICAL ORGANIZATIONS

Large instrumental and choral organizations are maintained on a high artistic and musical level and offer numerous opportunities for all interested and qualified students of the University to participate. Selection for membership is based on an audition; courses may be repeated with the approval of the student's adviser. Three one-hour meetings per week.

- 172. Music Education Orchestra. (See page 211 for description).
- 174. Music Education Band. (See page 211 for description).
- 177. University Glee Club. (1).
- 178. Men's Glee Club. (1).
- 179. Women's Glee Club.
- 373. University Orchestra. (1).
- 175. University Band. (1).
- 375. University Band. (1).
- 377. University Chorale. (1).

MUSIC EDUCATION

PROFESSOR GEORGE JONES HARRIS, *Chairman*
Room 172, Administration Building

(Faculty listed on page 205)

Requirements for the major and minor in music education are listed on page 121.

-
- 123. Music for Classroom Teachers. (Replaces Music Education 221). (3).

A study of methods of teaching classroom music in grades 1 through 6 through singing, playing instruments, listening, and moving to music; major scales, primary chords, rhythm, meter; functional use of the keyboard and easy-to-play melody instruments; sight singing with syllables and numbers. For relevant experiences in appreciation, a study is conducted of the string and woodwind instruments of the orchestra; recorded music representative of the musical styles and composers of the period 1700-1825 is heard both in and out of class. No prior training in music is required. Not open to music majors.

- 124. Music for Classroom Teachers. (Replaces Music Education 222). (3).

A continuation of Music Education 123; minor scales, secondary chords; brass and percussion instruments of the orchestra; musical styles and composers from 1825 to the present. PREREQUISITE: Music Education 123.

(The following courses, Music Education 128 through 140, are designed to teach the music education major, already a competent performer in one field, the playing techniques of the major instruments of band and orchestra and the methods of instructing others in these techniques. Practice facilities are provided and there are no additional fees. Each class meets two hours per week.)

128. **Class Instruction in Piano. (1).**
Basic technique, with emphasis on sight-reading.
129. **Class Instruction in Piano. (1).**
Playing of songs used in school music teaching; community songs and hymns; exercises written in music theory classes.
130. **Class Instruction in Piano. (1).**
Simpler Bach chorales, more difficult songs, and accompaniments appropriate to the student's major field; memorization optional.
131. **Class Instruction in Piano. (1).**
Selected easier studies and compositions by Czerny, Concone, Beethoven, Chopin, Schumann, Bartok, and others.
132. **Class Instruction in Stringed Instruments. (1).**
133. **Class Instruction in Stringed Instruments. (1).**
134. **Class Instruction in Woodwind Instruments. (1).**
135. **Class Instruction in Woodwind Instruments. (1).**
136. **Class Instruction in Brass Instruments. (1).**
137. **Class Instruction in Brass Instruments. (1).**
138. **Class Instruction in Percussion Instruments. (1).**
139. **Class Instruction in Voice. (1).**
140. **Class Instruction in Voice. (1).**

(The following courses, Music Education 211 and 174, provide familiarity with materials and routines suitable for use with school orchestras and bands; they enable a student who plays his major instrument in the University orchestra or band to gain needed playing experience on other instruments and also enable voice, piano, and organ majors to gain ensemble experience. Either course may be repeated for additional credit, or students may participate without credit. Each course meets three hours per week.

172. **Music Education Orchestra. (1).**
174. **Music Education Band. (1).**
321. **Music Supervision in Grades 1 through 9. (3).**
The teaching, supervision, and administration of music; basic concepts, philosophy, and objectives of music education.
325. **Teaching for Appreciation in Grades 1 through 9. (3).**
The listening experience and other related music activities as an approach to the appreciation of music. PREREQUISITE: permission of the instructor.
331. **Materials and Methods in Instrumental Music. (3).**
Developing the band or orchestra; balance and tone quality; conducting and interpretation; problems of intonation; literature for solos, ensembles, and groups of all grades.
421. **Special Problems in the Teaching of Music. (1 to 3).**
This course provides for class or individual study of the problems and opportunities faced by the person who teaches music in the schools; for classroom teachers, music teachers and supervisors, principals, and administrators.

OFFICE MANAGEMENT

(See SECRETARIAL SCIENCE AND OFFICE MANAGEMENT)

PHILOSOPHY

PROFESSOR WILLIAM BRYAN BARTON, JR., *Chairman*
Room 201, Jones Hall

Requirements for the minor in philosophy are listed on page 100.

-
- 111. Introduction to Philosophy. (3).**
 A study of the great problems arising in the reflection upon the knowledge and nature of the world and human conduct in it.
- 112. Elementary Logic. (3).**
 An introduction to the principles of traditional logic, with emphasis on deductive inference, the fundamentals of inductive reasoning, and logic as a practical human instrument.
- 221. The Conflict of Ideals in Contemporary Civilization. (3).**
 The philosophical implications of important current issues, with attention to the philosophical presuppositions of the cultural, intellectual, political, and economic conflicts of the modern world.
- 222. Introduction to Ethical Thought. (3).**
 An elementary course in ethics emphasizing the great ethical systems from ancient to modern times.
- 311. History of Philosophy. (3).**
 Important systems of thought of ancient and medieval philosophy, with selected readings from the great philosophers.
- 312. History of Philosophy. (3).**
 Great modern philosophers from Descartes to the existentialists, with selected readings from important works.
- 313. Philosophy of Religion. (3).**
 The contribution of philosophy to the basic issues of religion; a recognition of the principles which make religion valid throughout all its diverse forms and in the face of advancing scientific knowledge.
- 314. History of Living Religions. (3).**
 A historical and comparative survey of the contemporary non-Biblical religions of the world, with readings in the important literature: Primitivism, Hinduism, Buddhism, Confucianism, Taoism, Islam, etc.
- 315. The Philosophy of Art. (3).**
 The major forms of esthetics as expressed in painting, sculpture, and music, with readings in the great classics in esthetics.
- 322. Contemporary Ethical Theory. (3).**
 Contemporary ethical thought with readings from important works in the field.
- 411. Advanced Logic. (3).**
 The techniques of modern symbolic logic and scientific method. **PRE-REQUISITE:** Philosophy 112.
- 412. Theory of Knowledge. (3).**
 The basic problems of epistemology, with readings in the important

philosophers. PREREQUISITES: two courses in philosophy, or permission of the instructor.

413. Metaphysics. (3).

An analysis of the basic metaphysical concepts and a critical study of old and new theories of the nature of being. PREREQUISITES: two courses in philosophy, or permission of the instructor.

414. Contemporary Philosophy. (3).

The major concepts and problems of modern philosophy, including existentialism and logical positivism. PREREQUISITES: two courses in philosophy, or permission of the instructor.

415. American Philosophy. (3).

The development of philosophical traditions in the United States from the Puritans to the present and their relationship to social and cultural history. PREREQUISITES: two courses in philosophy, or permission of the instructor.

GRADUATE COURSES IN PHILOSOPHY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

G-411. Advanced Logic. (3).

G-412. Theory of Knowledge. (3).

G-413. Metaphysics. (3).

G-414. Contemporary Philosophy. (3).

G-415. American Philosophy. (3).

PHYSICAL EDUCATION

(See HEALTH AND PHYSICAL EDUCATION)

PHYSICAL SCIENCES

PROFESSOR JESSE WELLS FOX, *Chairman*
Room 121, Manning Hall

PROFESSORS HOLMES and IJAMS

ASSOCIATE PROFESSORS BEASLEY, CLAYPOOL, HAYES, MARSHALL,
RARIDON, ROBINSON, and SCHIRMER

ASSISTANT PROFESSORS ESTES, KARRAKER, NEMITZ, and TANNER

Mrs. MARKS and Mr. SCHWAIGER

The Department of Physical Sciences offers majors and minors in chemistry, physics, and physical science; requirements are listed on page 100. Information concerning pre-professional curricula will be found on pages 78 and 90. The program for the degree of Bachelor of Science in Medical Technology is outlined on page 95.

CHEMISTRY

100s. Chemistry for Nurses. (4).

A study of the application of chemistry in health and disease, designed to meet the need of students who plan to enter the nursing

profession. Approximately one-half of the semester is allocated to general chemistry, one-fourth to organic chemistry, and one-fourth to biochemistry.

Three lecture, two laboratory hours per week.

110. Introduction to Chemistry. (2).

Designed for students who, by examination, do not qualify for standard chemistry courses. An introduction to the basic concepts required for further study in chemistry and physics, with stress on scientific calculations and the properties of matter. *Credit in this course will not apply toward a major in chemistry, physics, or physical science, nor will it satisfy any part of the science requirement for graduation.*

Two lecture hours per week.

111. General Chemistry. (4).

The basic course and a prerequisite for all higher-numbered courses in chemistry, covering atomic structure and its relationship to the physical and chemical properties of the elements, the states of matter, properties of gases and solutions, oxidation-reduction reactions, acid-base reactions, and chemistry of some of the more important non-metals. **PREREQUISITE:** Chemistry 110, or approval of the staff. **PREREQUISITE OR COREQUISITE:** Mathematics 121 or 141.

Three lecture, three laboratory hours per week.

112. General Chemistry. (4).

A continuation of Chemistry 112, covering the chemistry of the more important non-metals, chemical equilibrium and the Law of Mass Action, colloids, electrochemistry, and oxidation potentials. The laboratory is elementary qualitative analysis. **PREREQUISITE:** Chemistry 111.

Three lecture, three laboratory hours per week.

200. Elementary Quantitative Analysis for Biological Sciences. (4).

Designed for students in the biological sciences, with stress on the care and use of the analytical balance and the theory and practice of volumetric analysis and colorimetry. *Credit in this course will not apply toward a major in chemistry.* **PREREQUISITE:** Chemistry 112.

Two lecture, four laboratory hours per week.

201. Elementary Physical Chemistry. (4).

A brief course in physical chemistry, primarily for students in the biological sciences as a preparation for organic chemistry and the physical concepts of biochemistry. *Credit in this course will not apply toward a major or minor in chemistry, physics, or physical science.* **PREREQUISITES:** Chemistry 200 or 220 and Mathematics 122 or 141.

Three lecture, two laboratory hours per week.

220. Quantitative Analysis. (4).

The theory and practice of gravimetric and titrimetric quantitative chemical analysis, with stress on principles and techniques of gravimetry, titrimetry, and stoichiometry. Laboratory work includes the use of the analytical balance, and preparation of standard solutions, and the analysis of samples. **PREREQUISITES:** Chemistry 112 and Mathematics 141 or 211.

Two lecture, six laboratory hours per week.

321. General Organic Chemistry. (4).

A systematic study of the preparations and reactions of aliphatic compounds and their interpretation by modern theories of organic chemistry. PREREQUISITE: Chemistry 112; Chemistry 201 or 220 is recommended.

Three lecture, four laboratory hours per week.

322. General Organic Chemistry. (4).

A continuation of Chemistry 321, with primary emphasis on the chemistry of carbohydrates and/or aromatic compounds. PREREQUISITE: Chemistry 321.

Three lecture, four laboratory hours per week.

341. Physical Chemistry. (Formerly Chemistry 411). (4).

The fundamental principles of physical chemistry, including kinetic theory, thermo-chemistry, the laws of thermodynamics, solutions, and phase equilibria. PREREQUISITES: Chemistry 200 or 220; Physics 212 or 252; Mathematics 212.

Three lecture, two laboratory hours per week.

342. Physical Chemistry. (Formerly Chemistry 412). (4).

A continuation of Chemistry 341, considering such topics as irreversible processes, electromotive force, ionic equilibria, quantum theory, molecular structure, crystals, and surface chemistry. PREREQUISITE: Chemistry 341.

Three lecture, two laboratory hours per week.

401. Biochemistry. (4).

An elementary course dealing principally with chemistry of carbohydrates, proteins, lipids, vitamins, etc., digestion and absorption, with consideration also given to certain physico-chemical topics including the colloidal state, colligative properties, equilibria and buffer mechanisms, and the electrolyte structure of body fluids. PREREQUISITE: Chemistry 322.

Two lecture, four laboratory hours per week.

402. Biochemistry. (4).

The topics include blood and other tissues, the excretions, energy metabolism, intermediary chemical metabolism. PREREQUISITE: Chemistry 401.

Two lecture, four laboratory hours per week.

420. Advanced Analytical Chemistry. (3).

An advanced treatment of the theory and calculations of gravimetric and titrimetric analysis. PREREQUISITE: Chemistry 342, or permission of the instructor.

Three lecture hours per week.

421. Advanced Inorganic Chemistry. (3).

An advanced presentation of the principles of inorganic chemistry, considering such topics as atomic structure, trends within the periodic table, acid-base theories, and the bonding, structure, and properties of inorganic compounds. PREREQUISITE: Chemistry 342, or permission of the instructor.

Three lecture hours per week.

422. Instrumental Analysis. (4).

Applications of recent developments in the field of instrumental analysis. The theory and use of colorimetric, spectrophotometric and elec-

trometric methods of chemical analysis, with experience in the use of the Beckman DU Spectrophotometer and other related colorimetric and spectrometric instruments. PREREQUISITES: Chemistry 342, or permission of the instructor; and Chemistry 420.

Two lecture, four laboratory hours per week.

431. Organic Qualitative Analysis. (3).

Characterization of known and identification of unknown, pure organic compounds by solubility tests, class reactions, specific test reagents, and the preparation of derivatives. PREREQUISITES: Chemistry 220 and Chemistry 322.

One lecture, six laboratory hours per week.

490. Chemical Literature. (1).

Use of the chemical literature and the writing of technical reports. PREREQUISITE: junior standing in chemistry.

One lecture hour per week.

491. Seminar. (1).

Special projects, reports and investigation of current chemical literature. PREREQUISITE: Chemistry 490.

One lecture hour per week.

PHYSICS

111. Foundations of Physics. (3).

A thorough study of certain basic principles of science, with particular stress on the nature of physics, designed for the student who has had no previous training in physics. *Credit in this course will not apply toward a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.*

Two lecture, two laboratory hours per week.

112. Foundations of Physics. (3).

A continuation of Physics 111. PREREQUISITE: Physics 111. *Credit in this course will not apply to a major or a minor in physics, chemistry, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.*

Two lecture, two laboratory hours per week.

211. General Physics. (4).

The general physics course, covering the topics of mechanics, heat, and sound; required of all pre-medical, pre-dental, and pre-pharmacy students. PREREQUISITE: Mathematics 141.

Three lecture, two laboratory hours per week.

212. General Physics. (4).

A continuation of Physics 211, covering the topics of magnetism, electricity, light, and modern physics. PREREQUISITE: Physics 211.

Three lecture, two laboratory hours per week.

251. Physics for Science and Engineering. (5).

Designed primarily for students intending to major in physics, chemistry, or mathematics; required of all students in the pre-engineering curriculum and recommended for students planning to teach physics in the secondary schools. PREREQUISITES or COREQUISITES: Chemistry 111 and Mathematics 211.

Four lecture, two laboratory hours per week.

252. Physics for Science and Engineering. (5).

A continuation of Physics 251. **PREREQUISITE:** Physics 251. **PREREQUISITES or COREQUISITES:** Chemistry 112 and Mathematics 212.

Four lecture, two laboratory hours per week.

270. Acoustics of Musical Sounds. (3).

Designed primarily for majors in music. *Credit in this course will not apply toward a major or minor in chemistry, physics, or physical science, nor will it satisfy any part of the science requirement in the pre-professional curricula.* **PREREQUISITE:** Mathematics 101 or 121 or 141.

Two lecture, two laboratory hours per week.

311. Mechanics. (3).

An advanced course in classical mechanics covering statics and dynamics of particles, rigid bodies, fluid flow, work, energy, momentum, force fields, and harmonic motion. Recommended as good preparation for advanced physics courses. **PREREQUISITE:** Physics 212 or 252. **COREQUISITE:** Mathematics 312.

Three lecture hours per week.

312. Mechanics. (3).

A continuation of Physics 311. **PREREQUISITE:** Physics 311.

Three lecture hours per week.

321. Electricity and Magnetism. (4).

An advanced course in electricity and magnetism covering such topics as magnetostatics, electrostatics, d.c. and a.c. circuits, electromotive force, thermal effect, electronic theory, and field theory. **PREREQUISITE:** Physics 212 or 252. **COREQUISITE:** Mathematics 312.

Three lecture, three laboratory hours per week.

322. Electricity and Magnetism. (4).

A continuation of Physics 321. **PREREQUISITE:** Physics 321.

Three lecture, three laboratory hours per week.

351. Electronics. (4).

Theory and applications of electronic devices such as vacuum and gas-filled tubes, photoelectric cells, and semiconductors, with particular emphasis on basic electronic circuitry and laboratory instrumentation. **PREREQUISITES:** Physics 212 or 252, and Physics 322.

Three lecture, three laboratory hours per week.

411. Atomic and Nuclear Physics. (4).

A study of atomic structure and behavior, the interaction of atomic particles, nuclear structure, and subatomic particles, radiation and its properties and origin, with some consideration of applications of recent developments in physics. **PREREQUISITES:** Physics 212 or 252; Mathematics 312.

Three lecture, three laboratory hours per week.

412. Atomic and Nuclear Physics. (4).

A continuation of Physics 411. **PREREQUISITE:** Physics 411.

Three lecture, three laboratory hours per week.

421. Optics. (4).

Geometrical and physical optics including such topics as thin lenses,

spherical mirrors, lens aberrations, optical instruments, waves, interference, diffraction, absorption, transmission, and scattering. **PREREQUISITES:** Physics 212 or Physics 252; Mathematics 312.

Three lecture, three laboratory hours per week.

422. Optics. (4).

A continuation of Physics 421. **PREREQUISITE:** Physics 421.

Three lecture, three laboratory hours per week.

431. Radioisotope Technology. (3).

Properties and detection of radiation, production of isotopes, use of detection devices, radiation chemistry, thickness and density gauging, activation analysis, moisture measurement, safety procedures, analytical tracer techniques, industrial radiography, procurement of radioisotopes and radioisotope licenses, and design of radiochemical laboratories. **PREREQUISITE:** college course in physics, chemistry, and mathematics.

Two lecture, two laboratory hours per week.

451. Thermodynamics. (3).

A mathematical treatment of thermodynamics, including such topics as work, energy, enthalpy, entropy, reversible and irreversible processes, equilibria, specific heats, and phase transitions. **PREREQUISITES:** Physics 212 or 252; Mathematics 312.

Three lecture hours per week.

GRADUATE COURSES IN PHYSICAL SCIENCES

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the *Bulletin of The Graduate School.*)

CHEMISTRY COURSES

G-401. Biochemistry. (4).

G-402. Biochemistry. (4).

G-420. Advanced Analytical Chemistry. (3).

G-422. Instrumental Analysis. (4).

G-431. Organic Qualitative Analysis. (3).

501-I Principles of Inorganic Chemistry. (3).

502-I Principles of Organic Chemistry. (3).

511. Advanced Inorganic Chemistry. (3)

512. Advanced Inorganic Chemistry. (3)

521. Principles of Analytical Chemistry. (3).

531. Intermediate Organic Chemistry. (3)

533. Organic Preparations. (3).

536. Chemistry of Natural Products. (3).

541. Advanced Physical Chemistry. (3).

551. Radio-Chemistry. (3).

PHYSICS COURSES

G-411. Atomic and Nuclear Physics. (4).

G-412. Atomic and Nuclear Physics. (4).

G-421. Optics. (4)

G-422. Optics. (4).

G-431. Radioisotope Technology. (3).

G-451. Thermodynamics. (3).

501-I General Physics for High School Teachers. (3).

502-I Fundamental Concepts of Contemporary Physics for High School Teachers. (3).

PHYSICS

(See PHYSICAL SCIENCES)

POLITICAL SCIENCE

PROFESSOR ERWIN CLYDE BUELL, *Chairman*

Room 236, Johnson Hall

ASSISTANT PROFESSOR MORROW

MR. GREGORY

Requirements for the major and minor in political science are listed on page 101.

For information concerning the pre-law curriculum, see page 90.

121. Introduction to Political Science. (3).

Nature and development of the state, role of government in the social process, the nature and development of political organization, and the search for a just balance of authority and freedom.

221. National Government. (3).

The origins of our system of government, the framing of the Constitution, the principles underlying constitutional government, citizenship, civil rights, political institutions, the national executive, the congressional organization and function, and the judicial process.

222. State and Local Government. (3).

The role of the state governments in the Federal System, political institutions, elections; the organization, functions, and problems of state government, with special emphasis on Tennessee government.

311. The Legislative Process. (3).

The origins, organization, functions, and activities of the modern legislature; making laws, supervising the administration, representing and informing the people.

312. Municipal Government. (3).

Structure and policy making; functions and administrative operation; and problems facing the modern city.

313. Parties, Pressure Groups, and Public Opinion. (3).

The development, nature, and functions of political parties; nature and function of pressure groups; and the role of public opinion in a democratic society.

314. Public Administration. (3).

The concepts and practices of organization and management in the executive departments, national, state, and local; an analysis of bureaucracy, administrative theory, budgeting, personnel, and administrative leadership.

- 331. International Politics. (3).**
A basic study of international relations, with emphasis on the methodology of international politics as a discipline and the basic political concepts of national policy and international politics.
- 341. History of Western Political Thought. (3).**
The history, formation, and development of political thought of the West, beginning with the political philosophers of ancient Greece and tracing the development of Western political theory and constitutionalism.
- 351. Modern Political Ideologies. (3).**
A study of authoritarianism and democracy as represented by a comparison of the four "isms"—capitalism, socialism, communism, and fascism.
- 411. American Foreign Policy. (3).**
An analysis of American foreign policy, with emphasis on the factors involved in developing and implementing policy.
- 414. United States Constitutional Development to 1875. (3).**
The development of our constitutional system of government, the role of the Supreme Court, and the historical issues as they influenced our constitutional development. Court cases will be used to emphasize the role of the courts in constitutional development.
- 415. United States Constitutional Development since 1875. (3).**
The development of our constitutional system of government, the role of the Supreme Court, and the historical issues as they influenced our constitutional development. Court cases will be used to emphasize the role of the courts in constitutional development.
- 421. Comparative Government. (3).**
A comparative study of the constitutional development, political institutions, and the organization and functions of the governments of Great Britain, France, and Germany.
- 422. Soviet Government and Politics. (3).**
Organization and function of the authoritarian state, with emphasis on the role of the Communist Party and ideology.
- 425. Political Geography. (Same as Geography 425). (3).**
A course dealing with the major powers of the world and strategic areas and problems of international concern.
- 432. International Law and Organization. (Formerly Political Science 332). (3).**
A study of legal and organizational controls of international conflict.

GRADUATE COURSES IN POLITICAL SCIENCE

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program, see the Bulletin of The Graduate School.)

- G-421. Comparative Government. (3).**
G-422. Soviet Government and Politics. (3).

PSYCHOLOGY

PROFESSOR JAMES RAYMOND McCANN, *Chairman*
Room 211, Johnson Hall

ASSOCIATE PROFESSORS ANDERSEN and PORTER

ASSISTANT PROFESSOR SMITH

MR. DEWS and MISS SPRUNT

DR. ADDINGTON, DR. BATTLE, DR. J. N. BOONE, DR. N. B. BOONE,
DR. BUENO, MR. EICHER, MR. LONG, and DR. MAY

Requirements for the major and minor in psychology are listed on page 101.

IMPORTANT NOTES: Psychology 111 and 112 are prerequisite for all other courses in the Department of Psychology; either 111 or 112 may be taken first.

111. General Psychology I. (3).

An introduction to the methods and scope of contemporary psychology. Facts and principles of human behavior are considered in their relationship to life adjustments. Areas covered include individual differences, social processes, aptitudes and vocational adjustment, intelligence, and the nature and development of personality.

112. General Psychology II. (3).

An introduction to psychology as a basic science emphasizing research findings and theoretical interpretations in the investigation of human and animal behavior. Areas covered include sensation and perception, motivation and emotion, learning and retention, and physiological mechanisms.

212. Psychology in Business and Industry. (3).

Attitudes, morale, skill, motivation, fatigue, and other psychological factors important in employer and employee relations in business and industry.

213. Social Psychology. (3).

A study of the influences of group behavior and cultural traditions upon the individual's vocational, domestic, and social adjustments. The psychological factors in the major problems of today.

214. Psychology of Personal Adjustment. (3).

Dynamic principles of personal and social adjustment with consideration of typical reactions to frustration and conflict as these relate to various phases of life.

215. Quantitative Methods. (3).

Elementary statistics with primary emphasis on computation. Measures of central tendency and variability with introduction to tests of significance and correlation.

311. Psychology of Personality. (3).

The development, organization, and assessment of the normal personality with an introduction to the nature of personality theory.

312. Psychology of Behavior Disorders. (3).

A survey of basic concepts of psychopathology with emphasis on the development of behavior deviations; description of various neurotic

and psychotic reactions; an introduction to methods of psychotherapy.

- 313. Great Contributions to Psychology. (3).**
Binet's studies of intelligence; Galton's studies of individual differences; Pavlov's experiments in conditioning; Thorndike's animal experiments; Watson's studies of infant behavior; Cannon's studies of emotional behavior; and others.
- 314. Learning and Behavior Modification. (3).**
Critical examination of dominant concepts and principles involved in a general theory of behavior with emphasis on the role of habit formation and acquisition of motives.
- 315. Experimental Psychology. (4).**
Methods and techniques of controlled experimentation in the areas of motivation, learning, and perception. Emphasis on and experience with theoretically oriented research. PREREQUISITE: Psychology 215.
Three lecture, two laboratory hours per week.
- 411. History of Psychology. (3).**
A general orientation course covering the historical antecedents and systems of psychology. PREREQUISITE: 12 semester hours in psychology.
- 412. Physiological Psychology. (3).**
A study of the physiological functions involved in behavior and experience. Surveys the physiology of the sense organs, nervous system, and response mechanisms. PREREQUISITE: 12 semester hours in psychology.
- 413. Advanced Quantitative Methods. (3).**
A follow-up to Psychology 215 with emphasis on standard errors of all commonly used statistics as well as the analysis of variance, Chi Square, and non-parametric tests. PREREQUISITE: Psychology 215.
- 414. Psychology of Exceptional Children. (3).**
Home and school problems of handicapped, retarded, emotionally unstable, precocious, or gifted children. PREREQUISITE: 12 semester hours in psychology.
- 416. Introduction to Clinical Psychology. (3).**
Survey of the field of clinical psychology and its relationship to other disciplines. PREREQUISITE: 12 semester hours in psychology including Psychology 311 or 312.
- 417. Psychological Appraisal. (3).**
Introduction to the development and application of psychological tests. Survey of instruments and techniques currently used in the psychological appraisal of the individual. PREREQUISITE: 12 semester hours in psychology.

GRADUATE COURSES IN PSYCHOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For descriptions of other courses and further details of the graduate program see the Bulletin of The Graduate School.)

G-411. History of Psychology. (3).

G-412. Physiological Psychology. (3).

- G-413. Advanced Quantitative Methods. (3).
- G-414. Psychology of Exceptional Children. (3).
- G-416. Introduction to Clinical Psychology. (3).
- G-417. Psychological Appraisal. (3).
- 501. Theories of Learning. (3).
- 502. Theories of Personality. (3).
- 503. Psychometrics. (3).
- 511. Contemporary Approaches to Psychotherapy. (3).
- 521. Measurements of Intelligence. (3).
- 522. Projective Techniques. (3).
- 531. Directed Practicum. (1 to 3).
- 532. Directed Practicum. (1 to 3).
- 533. Directed Practicum. (1 to 3).
- 591A. Special Problems in Psychodiagnostics. (1 to 3).
- 591B. Special Problems in Counseling and Psychotherapy. (1 to 3).
- 591C. Special Problems in Theory and Research. (1 to 3).
- 593. Thesis. (3 to 6).

RUSSIAN

(See MODERN LANGUAGES)

SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

PROFESSOR RIENZI WILSON JENNINGS, *Chairman*
Room 107, The School of Business Administration Building

ASSOCIATE PROFESSOR JOHNSON

ASSISTANT PROFESSORS PATTERSON and ROBERTS

MRS. TREECE

MRS. COUNCE

Requirements for the majors and minors in secretarial science and in office management are listed on page 113.

111. Personal Use Notehand. (2).

Presentation of a brief, easy-to-learn writing method and an application of this system to help the student learn more and learn faster. Applications of notemaking to studying, listening, reading, outlining, composing and making notes at meetings and conferences. Three meetings per week. Both semesters.

121. Elementary Typewriting I. (3).

Use and operation of the parts of the typewriter, mastery of the keyboard, simple business and professional letters and reports, introduction to tabulations. Four meetings per week. Both semesters.

*122. Elementary Typewriting II. (3).

Typing manuscripts, legal documents, and the several styles of business letters; tabulations; operation of duplicating machines; development of a typing rate of better than 45 words per minute. Both semesters.

*Credit is allowed in only one of the following courses: Secretarial Science 122, Secretarial Science 222.

211. Fundamentals of Shorthand I. (3).

Basic principles of simplified Gregg shorthand — alphabet, brief forms, phrases, and abbreviations; beginning dictation and pre-transcription training. Both semesters.

Two lecture, two laboratory hours per week.

212. Fundamentals of Shorthand II. (3).

Further study of shorthand theory, acquisition of ability to take rapid dictation and transcribe accurately. Enrollees must be able to type or be enrolled in a typewriting class while taking this course. Both semesters. PREREQUISITE: Secretarial Science 211 or permission of the instructor.

Two lecture, two laboratory hours per week.

***222. Typing for General Business. (3).**

An advanced typewriting class for nonsecretarial majors. Emphasis is placed on acquiring ability to set up business letters, forms, and statements, including tabulation. Both semesters. PREREQUISITE: Secretarial Science 121 or permission of the instructor.

311. Advanced Shorthand I. (3).

Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. Both semesters. PREREQUISITE: Secretarial Science 321.

Two lecture, two laboratory hours per week.

312. Advanced Shorthand II. (3).

A continuation of Secretarial Science 311, providing additional training and practice for the development of greater dictation and transcription speed. Emphasis is placed on mailable transcription at vocational levels. Spring semester. PREREQUISITE: Secretarial Science 311.

Two lecture, two laboratory hours per week.

321. Advanced Typewriting. (3).

Review of business letter styles, manuscripts and reports, statistical tables, and legal forms. Development of a typing rate of better than 60 words per minute. Both semesters. PREREQUISITE: Secretarial Science 122 or equivalent.

322. Personal Use Typewriting. (3)

Personal and business letters, reports, themes, and manuscripts. Summer term. PREREQUISITE: Secretarial Science 121 or permission of the instructor.

351. Business Report Writing. (3).

Techniques of report writing; principles of correct usage involving capitalization, spelling, word division, numbers, and punctuation; preparation of business reports, financial statements, auditor's reports, minutes of meetings, briefs, and research theses. Both semesters. PREREQUISITE: ability to type.

352. Business Letter Writing. (3).

Psychology of the business letter, preparation of various types of business letters, letter writing problems. Spring semester. PREREQUISITE: ability to type.

*Credit is allowed in only one of the following courses: Secretarial Science 122, Secretarial Science 222.

371. Secretarial Office Machines. (3)

Instruction and practice in the use of secretarial office machines such as the electric typewriter; voice writing equipment—belt, disc, tape, and wire recorders—and stencil and direct process duplicators. Spring and summer semesters. PREREQUISITES: Secretarial Science 351 and permission of the instructor.

421. Secretarial Typewriting. (3).

Production typing with emphasis on vocational standards for office positions including typing from copy and from voice writing equipment. Spring semester. PREREQUISITE: Secretarial Science 371.

431. Applied Secretarial Practice I. (3).

Qualifications, duties and training of a secretary; requirements for employment; organization of work; telephone etiquette; business reference books; receptionist techniques. Fall semester.

432. Applied Secretarial Practice II. (3).

Handling of incoming and outgoing mail; filing procedure; installation, administration, and control of geographic, numeric, subject, and Soundex filing systems; practice in the several types of filing. Spring semester.

433. Secretarial Dictation. (3).

Students will do stenographic work in some offices on the campus. The instructor, after conferring with the office head, will plan remedial work designed to prepare student for stenographic employment upon completion of course. Both semesters. PREREQUISITE: Permission of the instructor.

Three lecture or 9 hours of office work per week.

442. Office Management I. (3).

Modern methods used in office organization and management, including role of office management, scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling the mail, planning procedures, planning for equipment, office machines, automation, planning for office space, physical working conditions and office layout. Fall semester.

452. Executive Communication. (3).

Methods and techniques of communication are critically examined through the writing of case problems in correspondence with emphasis placed upon principles and correct writing; and in reports with importance placed upon the collection, analysis, organization, and presentation of authentic data. Open to graduating seniors and to graduate students, the course is primarily designed for the student who has had no basic study in either business correspondence or business report writing on the graduate level.

S-542. Office Management II. (3).

Problems in actuating office employees and controlling the work of the office, including motivating office personnel, job evaluation, recruiting and training office employees, office supervision, standards and standardization, quantity and quality control, improving procedures, simplification, office forms, measuring and timing office work, office manuals, office costs and budgets.

GRADUATE COURSES IN SECRETARIAL SCIENCE AND OFFICE MANAGEMENT

(The following courses, described in the preceding section, may be taken for graduate credit. For further information concerning the graduate program, see the Bulletin of The Graduate School.)

- G-442. Office Management I. (3).
G-452. Executive Communication. (3).
542. Office Management II. (3).

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JOHN RAMSEY GORDON, *Chairman*
Room 229, Johnson Hall

ASSISTANT PROFESSOR HART

MR. GARZA, MR. NASH, and MR. OSOINACH

DR. JENSEN

Requirements for the major in sociology and the minors in anthropology, industrial sociology, and sociology are listed on page 101.

For information concerning the pre-social work curriculum, see page 91.

IMPORTANT NOTE: *Sociology 211 and 212, or the equivalent, are pre-requisites for all upper-division courses in sociology.*

SOCIOLOGY

211. **Society and Man.** (3).
Nature and significance of culture; social organization and social processes; social and culture change.
212. **The Modern Community.** (3).
The community and its provisions for health, education, recreation, safety, and welfare; recent trends in control and planning. **PRE-REQUISITE:** Sociology 211.
311. **Sociometry.** (3).
Structures of social units; techniques and tools utilized in small group research; collection and interpretation of sociometric data.
312. **The Family.** (3).
The family in social change, the family and personality, family organization, family disorganization and reorganization, families in foreign lands, the future of the American family.
321. **Social Control.** (3).
The problem of social control, internalizing social control, social structures and institutions in the maintenance of order, improving social control.
322. **Social Attitudes.** (3).
Personal and popular attitudes, attitudes and wishes, attitudes as social forces.
411. **Criminology.** (3).
Theories of causation, crime as a business, affiliated problems, trends in punishment, treatment of offenders, control and prevention.

- 412. Collective Behavior. (3).**
Emergence of collective behavior, spontaneous collectivities, social movements, social consequences of restrictive collective behavior.
- 413. Industrial Sociology. (3).**
Social characteristics of business and industrial organizations; role of the consultant in personnel organization and human relations programs.
- 414. Sociology of Occupations and Professions. (3).**
Sociological analysis of the division of labor, occupational groupings, career patterns, and professional associations in modern American society.
- 415. Human Relations in Business. (Same as Management 443). (3).**
A study of the principles of human relations as applied to business. PREREQUISITES: Management 441 or 442.
- 421. Contemporary Social Problems. (3).**
Investigation, analysis, and discussion of current social problems.
- 422. Modern Sociological Theories. (3).**
European contributions, American developments, recent trends and influences in sociological theory.
- 423. Survey of the Field of Social Work. (3).**
History and philosophy of social work in the United States, functions of public and private social service programs, qualifications and opportunities for social work practice.
- 424. Methods of Social Work. (3).**
Theory and practice in social work, social casework, social group work, the interview, analysis of case records, field observation in local social agencies.
- 425. Group Processes in Community Organization. (4).**
Community organization and the utilization of citizen groups, action research, group process techniques, orientation and application for social work and other fields.

ANTHROPOLOGY

- 211. Introduction to Physical Anthropology. (3).**
Man's place in nature, fossil evidence, beginnings of culture as seen by archaeological sequences in both old and new worlds.
- 212. Society and Culture. (3).**
Theoretical frameworks within which social and cultural processes are analyzed, interpreted, and understood; comparative studies of social institutions.
- 221. Archaeological Field Techniques. (3 or 6).**
Experience in field excavations conducted at Chucalissa Museum; preparation of specimens, use of survey instruments, photographing and keeping archaeological records, map making of small ground areas. Hours individually arranged for either one or both summer terms. PREREQUISITE: permission of department chairman.
- 311. Survey of World Archaeology. (3).**
Early beginnings of man, struggle for survival, initial conquest of nature, rise of civilization; last two weeks devoted to archaeological field techniques pointing toward summer field work.

- 313. Peoples of the World. (3).**
Ethnographic summary of the diverse picture of the cultures produced by mankind.
- 314. Research Techniques and Museum Operation. (3).**
Individual instruction with a focus on the methods of analysis and the planning of displays. **PREREQUISITE:** permission of department chairman.

GRADUATE COURSES IN SOCIOLOGY

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

- G-411. Criminology. (3).**
G-412. Collective Behavior. (3).
G-421. Contemporary Social Problems. (3).

SPANISH

(See MODERN LANGUAGES)

SPECIAL EDUCATION

(See CURRICULUM AND INSTRUCTION)

SPEECH AND DRAMA

ASSOCIATE PROFESSOR EUGENE BENICE, *Acting Chairman*
Room 141, Administration Building

PROFESSOR WHITE

ASSOCIATE PROFESSOR RAPP

ASSISTANT PROFESSORS PRENDEVILLE and RIGGS

MISS BEAUBOEUF, MR. HERZOG, and MRS. PARK

MRS. BREDESEN, MR. IRWIN, and MR. SUTTON

Requirements for the major and minor in speech and drama are listed on page 102.

Students majoring in the Department of Speech and Drama must participate in dramatic and forensic activities of the department.

Through its affiliation with the Memphis Speech and Hearing Center the University is able to offer its students the facilities of that institution; members of the staff of the Speech and Hearing Center teach courses on the campus in speech science and correction, and students registered for courses in speech science visit the Center for demonstrations of clinical procedures used with children who have speech and hearing handicaps.

*101. Business Speech. (3).

Basic principles of oral communication, with attention to the speaking situation of the business world.

*111. Basic Speech. (3).

Adjustment to the speaking situation, effective voice usage, bodily activity, and speech organization.

*Credit may be earned in only one of the following courses: Speech 101, Speech 111.

112. **Public Speaking. (3).**
Organization and delivery of speeches of various types, including discussion techniques and speeches for various occasions; attention is given to developing the student's ability to analyze and criticize speech performances.
121. **Voice and Diction. (3).**
Principles of effective voice usage, including special attention to the individual voices of the class members; designed to improve voice characteristics and diction.
150. **Introduction to the Theatre. (3).**
A consideration of all of the dramatic elements of the theatre from the viewpoint of the audience, designed to enhance and improve the student's appreciation of theatrical performances.
231. **Argumentation and Debate. (3).**
The principles of argumentation, analysis, evidence, and the organization of the argumentative discourse.
245. **Oral Interpretation. (3).**
Principles of the oral interpretation of literature.
251. **Theatre: Back Stage. (3).**
A lecture-laboratory course covering basic elements of scenery construction and painting, stage lighting, properties, and make-up.
252. **Theatre: On Stage. (3).**
A beginning lecture-laboratory course for directors.
253. **Elementary Acting. (3).**
A lecture-laboratory course covering the basic techniques and principles of acting.
300. **Forensic and Dramatic Activities. (1).**
A course for students who are interested in preparing for and participating in intercollegiate forensic activities and University dramatic activities. One hour credit each semester for three clock hours of supervised laboratory work per week.
330. **Advanced Argumentation and Debate. (3).**
Advanced principles of argumentation applicable to deliberative and forensic speaking, including the preparation of debate cases and participation in intercollegiate debates.
331. **Discussion. (3).**
Consideration and practice of the principles and techniques of discussion, dealing with current problems of wide interest and significance.
332. **Advanced Public Speaking. (3).**
Application of public speaking principles to complex public address situations; additional performances before community groups. **PREREQUISITE:** Speech 231, or permission of the instructor.
345. **Advanced Oral Interpretation. (3).**
An advanced course in the principles and practice of the oral interpretation of literature including poetry, prose, and drama. **PREREQUISITE:** permission of the instructor.

- 346. Readers' Theatre. (3).**
The study and public performance of prose, poetry, and drama suitable for presentation in the styles of readers' theatre and chamber theatre. PREREQUISITE: permission of the instructor.
- 351. Theatrical Design. (3).**
The planning and practice of scene design for plays of all periods. PREREQUISITE: permission of the instructor.
- 352. Advanced Play Directing. (3).**
The direction of the long play, modern and historical.
- 353. Advanced Acting. (3).**
A survey of acting styles from classicism to realism.
- 354. History of the Theatre. (3).**
A history and survey of drama from *Agamemnon* to *A Month in the Country*.
- 355. History of the Theatre. (3).**
A history and survey of drama from *Ghosts* to *Death of a Salesman*.
- 381. Television Production I. (3).**
Basic television production techniques including class production of television programs utilizing the facilities of WKNO-TV.
- 382. Television Production II. (3).**
Programs in group dynamics, debate, theatre, and oral interpretation produced through the facilities of WKNO-TV.
- 391. Methods of Teaching Speech. (Same as Education 391P). (3).**
The teaching of fundamentals of speech in the secondary school.
- 431. History of British and American Oratory. (3).**
A history of the life, times, and speeches of outstanding orators of England and America. PREREQUISITE: permission of the instructor.
- 432. Advanced Discussion. (3).**
Advanced theory of logical and psychological facets of group dynamics, including participation in radio and television discussions. PREREQUISITE: Speech 331.
- 433. Persuasion. (3).**
Advanced theory of the psychology of speech, investigation of audience motivation, the theory of persuasive techniques, and practical application of all of these.
- 445. Interpretation of Dramatic Literature. (3).**
Practice in the interpretation of dramatic materials; solo and group work in the interpretation of short stories and plays of all periods. PREREQUISITE: permission of the instructor.
- 451. Costume Design for the Stage. (3).**
A survey of historic dress and the planning and rendering of costume designs for plays of all periods. PREREQUISITE: permission of the instructor.
Two lectures, one laboratory hour per week.
- 452. Stage Lighting. (3).**
The planning and execution of lighting for stage production. PREREQUISITE: permission of the instructor.

457. **Playwriting. (3).**
Principles and practice in writing the one-act play. PREREQUISITE: permission of the instructor.
458. **Playwriting. (3).**
Principles and practice in writing the full-length play. PREREQUISITE: permission of the instructor.
465. **Phonetics and Voice Improvement. (3).**
Knowledge and practice in the use of the International Phonetic Alphabet; consideration of the physiology of the ear and vocal mechanism; analysis of, and improvement techniques for the voices of the members of the class.
466. **Speech and Hearing Disorders. (3).**
An introduction to the causes, symptoms, and effects of speech and hearing disorders.
467. **Principles and Methods of Speech Correction. (3).**
An introduction to the principles and methods of correcting speech and hearing disorders, with scheduled observations and demonstrations at the Memphis Speech and Hearing Center. PREREQUISITE: permission of the instructor.
468. **Hearing Conservation. (3).**
An introductory course dealing with the theory and technique practiced in audiometry and speech reading. PREREQUISITE: permission of the instructor.
491. **Speech for the Classroom Teacher. (3).**
The speaking needs and abilities of teachers and students in the public schools.
492. **Play Production for Secondary Schools. (3).**
The problems of the play director in high schools.

GRADUATE COURSES IN SPEECH AND DRAMA

(Numbers prefixed with "G" identify courses described in the preceding section for which graduate credit is given. For further details see the Bulletin of The Graduate School.)

- G-431. **History of British and American Oratory. (3).**
G-466. **Speech and Hearing Disorders. (3).**
G-492. **Play Production for Secondary Schools. (3).**

DEGREES CONFERRED IN 1961

FIRST CONVOCATION

OF THE FORTY-NINTH COMMENCEMENT

FEBRUARY 3, 1961

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF FINE ARTS

Margaret Joann Hawkins Dandridge

BACHELOR OF ARTS

**Patricia Sue Borah	Marilynn Hopper
**Robert Buchalter	Ellen Lyndell Larson
Helen Oliver Ensley	Willard Summers
Martha Peters Garrott	

BACHELOR OF SCIENCE

*Charles Richard Arkin	Martin Ray Houston
Benjamin Joseph Barnes	Henry Normand Hudon
Jack Clayton Biggs	Norwood Watts James
Thomas Jackson Catchings	Jarrell Dee Jarrard
Kenneth Ray Chumney	Jack Jacques Karol
Susan Hill Cody	Gilbert Marvin Katz
Louis Roland Craddock	**Theta Ann Kelley
Perry Lee Dannelley	Ruth Marie Kish
Fred Dixon	Douglas Eugene Lamb
Jane Helen Edmiston	Rosemary Legeay
Ernest Lionel Everett	Royden Dickey Lipscomb
Harry Friedman	Marilyn Young Long
*Beverly Kay Frizzell	Joyce Willadean Maness
Paul John Garza	*David L. Mays
*Marjorie Lou Giles	John Ward McCracken, Jr.
Linda Lee Grabowski	Gayle Louise Miller
William Hayden Hall	William Hoyt Mitchell
James Wallace Hammack, Jr.	Eva Jacqueline Murray
James Willard Hatmaker	Charles Evan Parkin
Kenneth Lee Heiman	*Mary Bethenia Peebles
Ann Michele Orr Herrington	Thomas Shackelford Pesiky
Mary Goodman Hohenberg	Vernon Dale Phelps

*Cum Laude

**Magna Cum Laude

Peggy Lajuan Pulliam
 Frank Allen Quinn
 Cordell Franklin Ragland
 Nat Harold Sandler
 John Henry Shortt, Jr.
 Herbert Marshall Smith
 E. Frederick Spitznagle
 Joseph Lewis Street III
 Margaret Patricia Taylor

Marlita Lavonne Taylor
 Sandra Kay Tharpe
 Bobby Gene Todd
 Georgia Ellen Utley
 James Perrin Vogt
 Gena Faye West
 Robert Benjamine Williams, Jr.
 James Byron Wooten

THE SCHOOL OF BUSINESS

BACHELOR OF BUSINESS ADMINISTRATION

William Freeman Akin
 Fred Lonzo Barrow, Jr.
 Thomas Sidney Benson
 Gaylon Benson Booker
 Alice June Bruce
 Charles Bardell Carsten
 Ralph Royal Charter
 Lewis Dwain Chambers
 Roy Kelso Clark
 James Gordon Compton
 Cecil Tom Day
 William Chandler Douglas
 Sylvia Dale Erwin
 George Thomas Gibbs
 Raymond Murry Glass, Jr.
 John Monroe Gowdy, Jr.
 William Ethal Graham, Jr.
 Albert Kimbrough Gregory
 David Lyons Harrell
 Lawrence Wade Harrison, Jr.
 William Raymond Hawkins

Jackie Paula Hinton
 Charles Michael Ison
 Donald Delmar Jensen
 George Perry Lewis
 James Michael Lindsey
 Charles Lewis Lovett, Jr.
 Richard Edward Maguire
 James Edward Mallory
 James Wiley Martin, Jr.
 Angus Harris McAdory
 Victor B. McClure
 John Joseph McCommon
 George Monroe Moreland II
 Franklin K. Parker
 Carol Lynn W. Patterson
 Robert Eugene Potts
 Harold Hugh Sterling, Jr.
 Larry Lee Taylor
 John Stanley Underwood
 Louis Thomas Vescovi

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Bennye Annette Alexander
 Oscar Thomas Ammer
 Wayne Jackson Armstrong
 Harriet Ruth Aylor

Mary Paulyne Bargery
 John Holland Burke
 *Virginia Morris Burton
 Clarice Mosby Clayton

*Cum Laude

**Magna Cum Laude

Linda Claire Conyers	Ida Faye Killebrew
*Paul Stephen Cook	Calma May Labiche
Julia Frances Bradshaw Donovan	Lyda Ginsberg Morrison
Joel Wilson Duskin	Barry Pearce Parker
*Dorothy Jean Edwards	Paula Ellen Perry
Joe Thomas Flowers	Patricia Anne Reid
**Mary Anne Frederick	Robert I. Scheeper
*Donald Kirk Gafford	James Elton Shea
Robert Allan Hackney	Harriet Stockley
Mimi Kay Hardy	Mary Alice Turner
Rae Jean Hay	John Joseph Vance
Fred Joseph Hodges	Donna Ellis Jester Warren
Mary Leath Holmes	Rebecca Leona Webb
Vida Mae Hummel	

GENERAL COLLEGE

BACHELOR OF SCIENCE

John Robert Lynn, Jr.	Robert A. Tiebout
Donald Edward Roberts	

THE GRADUATE SCHOOL

MASTER OF ARTS

Robert Owen Armstrong	Edwin Webster Lard
Willis Albert Barnes	Dorothy Lee Lewis
Gloria Pitt Boyce	Charles C. Linn
Henry Ward Byrd, Jr.	Robert J. McAdams
James Wallace Cantrell	Dorothy Boggan McInnis
April Hoh-Chan Chu	Marquis L. McInnis
Charles B. Cureton	Donald Royce Miller
Adrienne Davis	Margaret Collier O'Connor
Charles G. DePriest	William Travis Pannell, Jr.
James A. DeVazier	Norman W. Phebus
Lillian Lorene Eddins	Helen Walker Raney
Betty Eugenia Emerson	May Elizabeth Riddle
Maxwell Emerson	Paul R. Simonton
John Edward Free	Robert Leland Trantham
William Jack Fuller, Jr.	Rebecca Buchanan Vaughan
Marvin Edgar Henderson, Jr.	James Michael Vincent
Lee R. Hopkins	Woodrow W. Wagster
Charles Edmond Kendrick	James David Williams

*Cum Laude

**Magna Cum Laude

DEPARTMENT OF AIR SCIENCE
AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS
Thomas S. Pesikay Cordell F. Ragland

SECOND CONVOCATION
OF THE FORTY-NINTH COMMENCEMENT
JUNE 3, 1961

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF MUSIC

Kenneth Harry Brixey	Sara Tanksley Savell
*Robert Henry Knott	Sammy Gail White

BACHELOR OF FINE ARTS

Martha Frances Baker	Robert Lee Shelton
Anne Elizabeth Howell	Jane Blair Smith
*Dale Bourn Pritchett	

BACHELOR OF ARTS

Charles Patterson Ainsworth	Barbara Metcalf Maury
John Porter Brand	*Betty Jo Merritt
**Barbara Ann Bruce	*Evelyn Louise Musick
Sara Ann Cooley	Carole Vernon Patterson
Tanya Houston Crutchfield	*Beverly Jean Pouncey
**Yvonne Louise Gien	Richard Douglas Reece
Patricia Louise Huffman	**Joanna Dare Roberts
Janice A. Hurley	Clay Nebhut Saunders
**Kenneth Terry Jackson	Nancy Busteed Stanley
Thomas Evans Kramer	**Sally Bernice Taylor
Raymond Thomas Lange, Jr.	Paul Harlon Tucker
Barbara Ann Lindsey	

BACHELOR OF SCIENCE

Paulyne Patricia Allen	Robert Kenison Bickham
John Paul Atkins	Harry Milton Blackford
Reid Peter Langford Ballenger	Hugh Tabor Blanton
Charles Donovan Barron	Julianne Bragg

*Cum Laude

**Magna Cum Laude

- Emily Cason Brankstone
 *Lamar Whitlow Bridges
 Bobby Ray Browning
 Jim Clarence Busby
 *Byron Gerald Childers
 **Florence Ray Clew
 *Linda Louise Jackson Cobb
 Charles David Coscia
 Ursula Carol Crocker
 Elton Osborn Dalton
 James Baker Dennen
 Johnny Ray Dickey
 Justin Henry Dillier
 Curtis Nelson Early
 Roger Edmonds Fakes, Jr.
 *Andrea Cross Farrow
 David Lee Forbush
 Richard Foster Foster
 Nancy Elaine Gary
 Linda Jean Greif
 *Fred Ashley Guthrie
 Harriet Farmer Hallman
 Edward Anthony Harris, Jr.
 Georgia Sixsmith Harris
 William Fite Heard
 Ann Maudine Hickman
 William Sidney Hill, Jr.
 May Wilma Holland
 Louis Edward Hurley
 *Harriet Gayle Jacobs
 **Julia Avice Kaiser
 Robert Taylor Keeton, Jr.
 **Carl David Landis
 *Catherine Lee LeDuke
 Priscilla Anne Lee
 James August Leffew
 *June Marie Love
 *Miles Harwell Lovelace
 *Francine Estes Lucas
 Leslie Carole Luttrell
 Laura Deming Lyons
 *Cum Laude
 **Magna Cum Laude
- Jack Edward Maroon
 Eleanor Frances McGee
 James Ross McKinney, Jr.
 William Kenneth Meadors
 John McClellan Miller
 *Darrell Lee Mink
 *Bobby Leon Moran
 Charles Vinson Morton, Jr.
 Loretta Mary Nestrud
 John William Nicks
 *Wayne Anderson Norton
 Joseph Francis Pagano
 Mario Calvo Revelo
 Norman Dimitri Richards
 *Robert Rudolph Ritter
 Judith Belle Rowe
 Ken Castle Ruby
 Joel Frederick Schlosberg
 Marilyn Kay Schmittou
 Ann LaNelle Scott
 William Rodrick Sewell
 Dorothy Beal Shannon
 *Laura Jo Shaw
 *Mary Josephine Slater
 Harry Dale Slawson
 Oliver James Slocum
 Fred Eugene Sparks
 Nili Steinmark
 Stanley Doane Stephenson
 Robert Thomas Swindell
 Hermie Jo Tedford
 *Mary Jo Thornton
 Tanas George Traicoff
 James Emerson Wilford, Jr.
 Mavis Bridges Wilkinson
 **Ethel Perry Williams
 Lawrence Rudolph Williams
 Charles Robert Willmore, Sr.
 Franklin Benard Wright
 Thomas Dunlevy Yeaglin

THE SCHOOL OF BUSINESS

BACHELOR OF BUSINESS ADMINISTRATION

Sally Antoinette Adams	Morris David Loskove
Roy Watterson Black, Jr.	Jimmy Ray Lowrey
Patrick Riley Borders	Kenneth Falton Lowry
John Lee Braddock	Clifford Allan Malar
Guy Jones Brown, Jr.	Miller Jackson Mathews, Jr.
James Graydon Buchanan, Jr.	George Robert McDaniel
Mary McCalman Burchum	Donald Hugh McKinnon
Charles Edward Chipman	J. W. McMurray
Robert Hatchard Chisholm	James David Middleton, Jr.
*Charles William Civer, Jr.	Jack Mock
Robert Winfred Click	*Euward Leroy Moore
Judith Ann Compton	Paul Eugene Parish
*John Thomas Epps	*Nancy Carolyn Phillips
Bennie Rashall Gooch	Jack Irwin Reiss
James Richard Hampson	Jon Marvin Sacharin
Edward Dale Harris	George Eugene Shanks
*Eleanor Graves Harris	*Richard Carman Sherman
Jefferson Clarke Harris	Edward Dana Simmons, Jr.
Colin Partington Heath	*El Ray Stockdale
Henry Harrison Herron, Jr.	Beverly Ann Summers
Ann Paslay Heustess	James Price Sunderland
Libby Ann Hyatt	Larry Don Swindle
James Richard Johnson	Brenda Pikey Tillman
*Troy Elwood Johnson	Edgar Stoker Trotter, Jr.
Jolene Hopper Jordan	Lionel Gene Varner
*Bobby Dean Keeney	Billy Joe Walker
Gerald Lee Kennedy	James Chamberlin Whitaker

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Minnie Leora Anthony	Carol Ann Booth
Janice LaNelle Armstrong	Annie Liza Brewer
*Barbara C. Baker	Joyce Ethel Cannon
William Bryan Bishop	James Troy Cates
*Helen Rion Boensch	Dorothy Moon Church
*Cum Laude	
**Magna Cum Laude	

- Elizabeth Diane Cofer
 Marguerite Rich Cofer
 Leota Hardin Coleman
 Linda Kay Cordle
 Mary Sue Cornelius
 Wilma Bond Craig
 Judy Rose Crum
 Clara Mae H. Crumpton
 Betty Ann Davis
 Dan Allen Davis
 *Richard Edward Dehn
 Eddie Jean Donlon
 Betty Lillian DuVall
 Linda Mae Ferguson
 Priscilla Jane Hamm
 Jane Murphey Hatcher
 Martha Elizabeth Hawley
 Hilda Bruton Head
 Marguerite Morton Hewlett
 Linda Lee Hodges
 James Roland Horner
 *Jacqueline Jones
 Barbara Marie Burton Kelly
 Phillip L. Kibbey
 *Shelia Ann Lowrey
 Jimmy Fessey McCafferty
 Lydia Ann McDill
 Revonda Faye McElroy
 Sarah Jean McEwen
 John Morris McGregor
 Russell Earl McGroom
 Mary Jane Monroe
 Juanita McWilliams Morton
 *Janice V. Nance
 Katherine Aniece Peterson
 **Betsy J. C. Pilkinton
 Alfred Aubrey Poston
 Kay Ray
 Mahala Carter Ray
 *Barbara Corinne Rea
 Carolyn Gardner Reeves
 Elizabeth Anne
 Caruthers Rhodes
 *Gertrude W. Rhodes
 Mary Gaskin Rossett
 *Carolyn Murl Rowe
 Frank Unruh Simonton
 **Yvonne Tuckfield Smith
 Jere Lee Somervell
 Elizabeth Marie Speltz
 Bessie Lynwood Stovall
 *Wilmah Scott Tatom
 Edna Lucille Taylor
 Woodson Bradley Thomas
 *Mary Ella Townsend
 Sunshine Townsend
 *Juanita Wilma Beardain Tubbs
 Doris Jean Venable
 Harold Dean Wade
 *Elizabeth Jane Waters
 Dee Ann Webb
 Joan Carolyn Wheatley
 Marilyn Ruth Whitaker
 Danny Janice Whitley
 Carla Jane Wilson

GENERAL COLLEGE

BACHELOR OF SCIENCE

- Wallace Smith Ball
 Hal Dale Goodwin
 Jimmy Durell Hardin
 Dale Robert Johnson
 Billy Carroll Lott
 *William Rhodes McCarroll
 Bobbie C. Patterson
 *Cum Laude
 **Magna Cum Laude

THE GRADUATE SCHOOL

MASTER OF ARTS

Elouise Fereday Anderson	Frances Amelia Kennon
Donald Edwards Barber	William R. Key
Ruth Lancaster Barkley	Zelma Whiteside Kubik
Woodrow Behannon	Paul M. McGucken
Sarah Krieger Bishop	Ometra Simpson McMahon
John Francis Breen, Jr.	Robert Joseph Mills
Sophia Clark Brotherton	Ruth Shollenberger Mischke
Martha Lou Jones Buchanan	Erle Walker Mulherin, Jr.
Charles Joseph Cahill	Edwin Frank Orr
Jimmy Eugene Chumney	Nathaniel McLyn Overall
Antonio F. Costa, Jr.	Len Dale Pierce
Charles A. Curbo	Adolph Otto Richter, Jr.
James E. Daniels	Ernest Richard Ross
Chester Richard Figiel	John T. Rutland
Virginia Lee Goss	Larry Allan Saunders
Peggy Watson Govan	Howard E. Street
Oliver Lendol Jackson	Johnny Carter Tarkington
William Carroll Kaag	Harold Douglas Wilson

DEPARTMENT OF AIR SCIENCE

AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

Richard F. Foster	Gerald L. Kennedy
Frederick C. Hartman	Edward D. Simmons, Jr.
Dale R. Johnson	Fred E. Sparks

THIRD CONVOCATION OF THE FORTY-NINTH COMMENCEMENT AUGUST 19, 1961

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF MUSIC

Julie Brandt Braswell

BACHELOR OF ARTS

Daniel Alexandre Boheme

*Dona Carolyn Dorsett

Robert Barton Rubin

Tina Aida Santi

Carolyn Jean Vaughn

BACHELOR OF SCIENCE

Kathryn B. Adkins

Frank Russell Huddleston, Jr.

**Howard Leo Beale

*Robert Clark Jones

Joe Daniel Beith

Joe Neal Kee

Lena Sue Bishop

Don Henry Lowe

Steven Henry Blockman

Robert Bruce MacDonald

**George Clark Browder

Marshall M. Marcus, Jr.

Richard Graves Cain

Roberto Goad Morton

Robert A. Caldwell

Florence Marshall McDonald

Glenda Elizabeth Chapman

Ann Blackwell McEachran

Kathleen Murray Chidester

*Helen Ann Phillips

Barbara Ellen Clark

Thomas Nolan Rhem

Henry Coccozza

Thomas Nelson Ries

John Patrick Colton, Jr.

William Carmel Roberts, Jr.

James Burchett Cross

*Martha Richardson Shoaf

David Lawrence Cunningham

*James Allen Simpson

Patricia Anne Dillon

Gerald Hughes Smith

James Robert Donovan

Charles Wesley Spawr

Robert James Dratnol

Joseph William Sullivan

Billy Eugene Dunlap

William Harold Taube

Ronald M. Elder

Jeanette C. Terry

Robert Thomas Greubel

Mary R. Tobin

James Conrad Hadaway

Joseph John Tonole, Jr.

David Lee Hale

**Virginia Anne Clark Utley

**Evelyn Klenke Harding

Donald Richard Walker

Ronnie Joseph Harper

*Robert William Wentworth

Jimmie Don Hester

Vicki Lynne West

Joe Frank Hill

Michael Howard West

James Wyatt Howell, Jr.

**Mahala Horton Williams

*Cum Laude

**Magna Cum Laude

THE SCHOOL OF BUSINESS

BACHELOR OF BUSINESS ADMINISTRATION

Donald Max Alexander	Robert Haywood Johnson
Lynda Kay Boner Arnett	Virgil James Johnson, Jr.
Bill Drue Avery	Patsy Lee Jones
Otis Doyle Bailey, Jr.	Thomas Bruce Kelley
Clois Douglas Ballinger	Jimmy Maurice Kelly
John Glenn Bingham	Jerry Lynn Littlefield
Charles Lynn Blaydes	John Ingram Mansfield
Johnnie Lee Braswell	Hubert McCommon
Bernard Joseph Brown, Jr.	Sylvan Lawrence Meyer
Jerry Franklin Crawford	Russell Lowell Morgan, Jr.
Herbert Brooks Culp, Jr.	Joseph Mack Perry
Marye Virginia Davis	James Gilbert Powell
Robert Franklin Dieter	Donald Dean Redden
Parks Edwin Duffee, Jr.	Harvey Allen Reisman
Ina Karon Essary	Preston Jules Robb
Thomas Wilmer Curry Gerdes	*Leslie Suzanne Rogers
Tommy Lee Gilliland	Robert Royal Rust
Alfred Young Glover	Walter Robert Shirah
Harold Gullett	James Homer Taylor
Robert Joyner Hubbs, Jr.	Jerry Thomas Taylor
Janice Kate Hughes	James Leroy Wilson
Morris Franklin Jennings, Jr.	

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE

Ada Rose Anthony	Verne E. B. Gallagher
Ruth Adair Augustine	*Katherine Nell Giardina
Robbie Floyd Aven	Carol Jeanne Cox Gibson
Hugholene Milstead Barnes	Marie Lee Goforth
Eugenia Aston Box	Betty Hatcher Goldschmid
Albert L. Broadway	Walter Hartzel Harris
**Nancy Chisholm Burnett	Betty Jane F. Hawkins
Ruth Fran Cary	Drexel Hendon
Dorothy Louise Delashmit	*Wilma Palmer Hendrix
Jo Downey	Janice Eleene Hicks
Lenora Alice Drake	Sara Anne Hoggatt
Inez Vincent Duncan	Melba Marcelle Huff
Betty Jo Cross Fulwood	Floyd Lester Johnson

*Cum Laude

**Magna Cum Laude

Charles Cox Jones	Avis Allen Pentecost
Ruby Estes Kellogg	John Timothy Pickle
Winifred Mullin Kerr	Henry Willis Rath
Freddie Campbell Mangum	Otis Wayne Rickman
Ruth Richardson Marion	Katherine Claire Scherer
Mattie Lou McCord	Dorothy Ellen Schraudt
Joyce McGill	Barbara Herndon Sharp
Edith Leona McQuiston	*Maxine Numa Tuggle
*Martha Lucile McQuiston	Emma Sue Vinson
June Elizabeth Mitchell	Jennie S. Weaver
Merry Carol Mitchell	William Burlynn Wilkins
Sylvia Hunt Napier	Elizabeth Ann Winford
Letha Jones Naro	Robert C. Wolfe
Billy Gene Newsome	Millie Opal Wooten Wood
*Emma C. Ward Page	Dorothy Zeiger
Vivian T. Parks	

GENERAL COLLEGE

BACHELOR OF SCIENCE

Jerry Marlin Cannon	Joseph Troy Philpot
Russell Gene DeBose	Wallace Moore Stone, Jr.
Arnold Robert Dormer, Jr.	Eugene Joseph Trust
Elwood Nicholas Lebouef	Harold Eugene Wilfong
James Watson Martin	John F. Yarbrough
Jimmy Robert Petty	

THE GRADUATE SCHOOL

MASTER OF ARTS

George L. Anderson	Robert G. Boulton
Wayne Jackson Armstrong, Jr.	Betty Jean Cheatam
Dorothy Campbell Bacon	Barbara Clifton
Gaylon Beasley	Jerry Keff Couch
Mary Elizabeth Beavers	Bryan Wesley Cunningham
Dolores Smitheart Benedict	Margaret Cary Dennen
Frank C. Billingsley, Jr.	Evelyn Campbell Drake
Reading Wood Black, Jr.	John B. Edgar, Jr.
Ralph Lenox Blalock, Sr.	Carolyn Ray Elliott

*Cum Laude

**Magna Cum Laude

Jewel F. Evans	James Edward Pirtle
James Edward Fowler	Adele Harrison Pope
Anne Elizabeth Dodd Freeman	Weldon Lee Pratt
Hobert McKinley Frye	Albert Lee Ragland
Berl B. Garey, Jr.	John Arthur Register, Jr.
Rose E. Gillespie	Edward C. Reilly
Margaret Waite Gilmer	John Alton Renick
May H. Goodman	Emily Welch Richardson
Oma Nunnally Gray	James Arguyle Rodgers
Marion D. Hassell	Landis Medling Ross
James Elbert Hayslip	Robert Reed Sanderlin
Maurine Davis Hayslip	Claude V. Scott, Jr.
Ozelle Coggins Hipp	Geddes Self, Jr.
Joe B. Howell	Joe Frank Sheffield
Annie Laurie James	James Woodrow Shepherd
William T. Jessen	Clinton Andrew Southerland
Virginia Mitchell Jolley	Eula Darnall Sprauge
John Edward Lee	Gentiliska Lindsey Springer
Jean Morris Long	James Clifford Stanfield
Billy E. Luttrell	James H. Terry
Robert DeWese Lynn	Virginia Rice Trelawney
Charles Dean McAdams, Jr.	Phil Hughes Vaughan
William Dossett McAdams	William Boswell Walk
Dorothy J. McGinnis	Ada Jane Walters
Lynn A. McNatt	Joe Mack Warlick, Jr.
Lina Small Matthews	William J. Wells
Pauline Bright Miles	Roy Louis Wenger
Winford E. Osburn	William Robert Williams
Carl Douglas Patterson	Victor Ray Wimpee
Lawrence Sidney Peek	Bess Millen Wolf
Nadine McCharen Peoples	Marilyn Mitchell Wray

DEPARTMENT OF AIR SCIENCE

AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

George C. Browder

Thomas W. Gerdes

*Cum Laude

**Magna Cum Laude

HONOR ROLL

FALL SEMESTER, 1960-61

For requirements, see page 74

	<i>Honor Points</i>		<i>Honor Points</i>
Howland, Katherine R.	190	Miller, Gayle L.	150
Merritt, Betty Jo	190	Mothershed, Virginia	150
Beale, Howard Leo	180	Nassar, John	150
Frizzell, Beverly K.	180	Peebles, Mary B.	150
Haire, Rex Patrick	180	Riddick, Max Forrest	150
Klenke, Evelyn Andra	180	Ritter, Robert R.	150
Roof, Martha Jan	180	Smith, Yvonne T.	150
Young, Nancy C.	180	Whitaker, Marilyn R.	150
Caldwell, Carol Ann	170	Herman, Sheila Ann	145
Dudley, Sandra Grace	170	Hope, Mary Lou	145
O'Neil, Jane Frances	170	Keeney, Bobby D.	145
Ray, Jimmie Ann	170	Koch, Susan Louise	145
Bricks, Bernard G.	165	Musick, Evelyn L.	145
Brown, Patricia Gail	165	Patterson, Joy Elizabeth	145
Burton, Virginia W. Morris.....	165	Scruggs, Leslie Scales	145
Cabler, Cherry Joyce	165	Weaver, Thomas Todd, Jr.	145
Capooth, Barbara Faye	165	Banks, William Morris, Jr.	140
Giem, Yvonne Louise	165	Cobb, Eleanor T.	140
Jones, Jacqueline	165	Coburn, Tom	140
Morrow, Sanford H.	165	Ferguson, Shirley Ann	140
Palmer, Leslie H.	165	Haire, Phyllis E. W.	140
Tatom, Wilmah A. Scott	165	Lawrimore, Rebecca Ann	140
Burchfield, Linda D.	160	Mitchell, Jerry Edward	140
Campbell, Marilyn R.	160	Norton, Wayne A.	140
Fortune, Herman T.	160	Powell, Marvin Adell	140
Kelley, Theta Ann	160	Shappley, William V., Jr.	140
Stephens, Rosemary C.	160	Siniard, Lois Arnold	140
Dodd, Robert Erroll	155	Stanley, Nancy Busteed	140
Gaines, Beth	155	Underberg, Carol Joy	140
Hudson, John Winston	155	Anthony, Minnie L.	135
Luna, Julia Anderson	155	Barrow, Fred Lonzo	135
Powell, Martha Ann	155	Beaver, Bonnie Rose	135
Roberts, Donald Edward	155	Bernstein, David A.	135
Boatman, Norma Faye	150	Browder, George C.	135
Bruce, Barbara Ann	150	Bussel, Alan	135
DeSpain, Hugh Edward	150	Civer, Charles William	135
Dorsett, Dona Carolyn	150	Edwards, Ralph Cagle	135
Doyle, Ella Adelaide	150	Ensley, Helen O.	135
Ferrell, Susie Elizabeth	150	Garrison, Patsy Ruth	135
Franklin, Sherman M.	150	Hays, Carole Anne	135
Hedley, Martha Kay	150	Hearington, Janelle	135
Hodges, William David	150	Howell, Anne Elizabeth	135
Kaiser, Julia Avice	150	Hudson, Mary Lee	135
Landis, Carol David	150	Jones, Joy S.	135
Miller, Eva May	150	Keathley, Sandra Ann	135

	<i>Honor Points</i>		<i>Honor Points</i>
King, Joy Veronica	135	Brown, Vernon V.	120
Korndorffer, Cynthia	135	Buchanan, Eunice T.	120
Lovelace, Miles H.	135	Buck, Helen Claire	120
Ritter, Janet Shirley Doyle.....	135	Cannon, Joyce Ethel	120
Schmidt, Moira L. Stalcup.....	135	Carsten, Charles B.	120
Stockdale, El Ray	135	Chipman, Charles Edward	120
Tansley, James Nicholas	135	Clemmons, Corinne J.	120
Warrington, Sarah J.	135	Covington, Jimmie A.	120
Burnett, Nancy Gene Chisholm	130	Crockett, John Edwin	120
Caplinger, Sandra F.	130	Dickens, Donna Kay	120
Dotson, Gloria Jean	130	Dix, Beverly L.	120
Eddins, Donna Elizabeth	130	Dulaney, Betty Jo	120
Harris, Eleanor G.	130	Duvall, Betty L.	120
Jackson, Kenneth T.	130	Epperson, Charlie L.	120
Leffew, James A.	130	Erwin, Sara Ann	120
Middleton, Morris H.	130	Ferguson, Eleanor M.	120
Pollard, Ronald William	130	Fields, Thomas R.	120
Rauchle, Bobby C.	130	Heidelberg, Sandra L.	120
Scudder, Barbara H.	130	Henderson, Charles Earl	120
Tarver, Sharon A.	130	Hodges, Linda Lee	120
Aaron, Kathleen C.	125	Isaac, Joanna Elizabeth	120
Alexander, Rose M.	125	Ison, Charles M.	120
Arkin, Charles R.	125	Jacobs, Harriet G.	120
Beagle, Lenelle D.	125	Johnson, Connie S. C.	120
Crumpton, Clara M. Humphreys	125	King, James William	120
Foster, Warren Lynn	125	Krueger, Harold F.	120
Franklin, Ann Gibson	125	Lamb, Sue Earney	120
Gaines, Johnson D.	125	Mank, Russell W., Jr.	120
Hamm, Herman Lloyd	125	McDavid, Paul Thomas	120
Henderson, Willis B.	125	Neumann, Judith Ann	120
Key, Vera Camille	125	Prince, Martha Jane Alexander	120
Lochridge, Annetta S.	125	Reeves, Carolyn G.	120
McMahon, Richard W.	125	Rhodes, Gertrude M. W.	120
Meagher, Paula Y.	125	Roberts, Joanna Dare	120
Rea, Barbara Corinne	125	Shain, Judith Anne Davis	120
Simpson, Mary Ann	125	Smith, Terry Douglas	120
Slaughter, Joy C.	125	Somervell, Jere Lee	120
Banister, Kathleen M.	120	Spalding, Ruth E.	120
Bell, Jerome Walter	120	Thornton, Mary Jo	120
Blucker, Judith Ann	120	Townsend, Mary Ella	120
Boheme, Daniel A.	120	Tyner, Gloria E.	120
Bridges, Lamar W.	120	Webb, David Willis	120

HONOR ROLL

SPRING SEMESTER, 1961

For requirements, see page 74

Burnett, Nance Gene	195	Hedley, Martha Kay	180
Dudley, Sandra Grace	195	McCarroll, William R.	180
Caldwell, Carol Ann	190	Ray, Jimmie Ann	180
Bruce, Barbara Ann	180	Evers, Jimmie William	175

	<i>Honor Points</i>		<i>Honor Points</i>
Bricks, Bernard G.	170	Townsend, Mary Ella	145
Rye, Robert Ray	170	Willis, Franklin V.	145
Shappley, William V. Jr.	170	Winn, Marilyn Anne	145
Brooks, Nancy Caroline	165	Aaron, Kathleen C.	140
Covington, Jimmie A.	165	Banister, Kathleen M.	140
Crockett, John Edwin	165	Giem, Yvonne Louise	140
Dehn, Richard Edward	165	Grilli, Gail Patricia	140
Doyle, Ella A.	165	Howland, Katherine R.	140
Estes, Linda Burchfield	165	Key, Vera Camille	140
Howell, Anne Elizabeth	165	Marcus, Marshall H.	140
Lawrimore, Rebecca A.	165	Anderson, Elouise Earleen	135
O'Neil, Jane Frances	165	Bell, Mary Garland	135
Roof, Marta Jan	165	Boheme, Daniel A.	135
Ross, Linda Diane	165	Bourland, Robert L., Jr.	135
Schroer, Franklin D.	165	Browder, George C.	135
Boatman, Norma Faye	160	Cannon, Joyce Ethel	135
Buck, Helen Claire	160	Castleberry, Garland	135
Campbell, Marilyn R.	160	Clay, Dorothy Gail	135
Drake, Lenora A.	160	Cobb, Eleanor Tucker	135
Fortune, Herman T.	160	Dillon, Patricia Ann	135
Miller, Eva May	160	Dorsett, Donna Carolyn	135
Norton, Wayne A.	160	Dulaney, Betty Jo	135
Tarver, Sharon A.	160	Dunn, Peggy Ann	135
Banks, William Morris, Jr.	155	Garner, Robert Harlan	135
Ferguson, Shirley Ann	155	Hamm, Herman Lloyd	135
Haire, Rex Patrick	155	Henderson, Carles Earl	135
Keathely, Sandra Ann	155	Hoffman, Ronald Joel	135
Powell, Martha Ann	155	Johnson, Bettye Lee	135
Ritter, Janet Shirley	155	Jordan, Barbara Sue	135
Baskin, Reed Carl	150	Kaiser, Julia Avice	135
Franklin, Sherman M.	150	Karas, James G.	135
Goad, Kathryn R.	150	King, Joy Veronica	135
Herron, Betsy Ross	150	Letchworth, John A.	135
Koch, Susan Louise	150	Luna, Julia Anderson	135
Landis, Carl David	150	Meadors, William K.	135
Loskove, Morris D.	150	Nassar, John	135
McMahon, Richard W.	150	Reeves, Carolyn G.	135
Musick, Evelyn L.	150	Rogers, Bruce Edwin	135
Peeler, Mary A.	150	Scott, Ann Lanelle	135
Smith, Yvonne Tuckfield	150	Smythe, Robert V.	135
Spalding, Ruth E.	150	Trammell, Elizabeth	135
Stockdale, El Ray	150	Williams, Sandra D.	135
Tatom, Wilmah A. S.	150	Bradley, Jimmie H.	130
William, Mahala H.	150	Brown, Patricia Gail	130
Davis, Dorothy J.	145	Cabler, Cherry Joyce	130
Gibson, Carol Jeanne Cox	145	DeSpain, Hugh Edward	130
Highsmith, Schelley	145	Lawrence, Marilyn J.	130
Hodges, William David	145	McGregor, John M.	130
Rauchle, Bobby C.	145	Moffatt, William Bryan	130
Henderson, Charles Earl	135	Shain, Judith Anne Davis	130
Stephens, Rosemary C.	145	Tucker, Charles M.	130

<i>Honor Points</i>	<i>Honor Points</i>
Watson, Sharon Dianna130	Hall, Edward D.120
Austin, Donald M.125	Hauswald, Eva Maria120
Beagle, Lenelle Darlene125	Hezel, William M.120
Blackeney, Sandra Lee125	Hudson, Frank120
Cates, Charles T.125	Huff, Melba M.120
Chu, Patricia Joy125	Irvin, Linda M.120
Civer, Charles William125	Isaac, Joanna Elizabeth120
Dobbs, Carolyn Elizabeth125	Krueger, Harold F.120
Jones, Jacqueline125	Levenson, Ruth F. M.120
King, William Ernest125	Logan, Jack120
Leffew, James A.125	Mank, Russell W., Jr.120
Rea, Barbara Corinne125	McEnaney, Francis G.120
Robinson, William Tate, Jr.125	Moran, Ruth Burns120
Simpson, James Allen125	Nance, Janice Vincent120
Somervell, Jere Lee125	Plunk, Kenneth Wayne120
Atkins, John Paul120	Rayans, Cynthia D. C.120
Bauman, Jeanne Bloch120	Salky, Irvin Martin120
Beaver, Bonnie Rose120	Scherer, Katherine C.120
Brand, John Porter120	Sharpe, Charlotte F.120
Braswell, Julie Brandt120	Skinner, Wendy K.120
Bussel, Alan120	Thompson, Jean Y.120
Coppersmith, Larry M.120	Townsend, Barbara A.120
Edwards, Ralph Cagle120	Whitehead, Bobby Sue120
Epperson, Charlie L.120	Williams, Roger Kittell120
Grobe, Mary E.120	Woodall, Ronald Lee120
Haire, Phyllis E. W.120	

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FALL SEMESTER, 1960-61

- | | |
|-------------------------------|-------------------------------|
| Banister, Kathleen M. | Hudson, John Winston |
| Banks, William Morris, Jr. | Jones, Jacqueline |
| *Beale, Howard Leo | *Kaiser, Julia Avice |
| *Boatman, Norma Faye | *Keeney, Bobby D. |
| Bricks, Bernard G. | *Kelley, Theta Ann |
| Bridges, Lamar W. | Klenke, Evelyn Andre |
| Browder, George C. | Koch, Susan Louise |
| Brown, Patricia Gail | Krueger, Harold F. |
| Brown, Vernon V. | Lamb, Sue Earney |
| Bruce, Barbara Ann | *Landis, Carl David |
| Burchfield, Linda D. | Lawrimore, Rebecca A. |
| Burton, Virginia Wade Morris | Luna, Julia Anderson |
| Bussel, Alan | McMahon, Richard W. |
| Cabler, Cherry Joyce | *Merritt, Betty Jo Rountree |
| *Caldwell, Carol Ann | Middleton, Morris H. |
| Campbell, Marilyn R. | Miller, Eva May |
| Cannon, Joyce Ethel | Miller, Gayle L. |
| Caplinger, Sandra F. | Mothershed, Virginia |
| Carsten, Charles B. | *O'Neil, Jane Frances |
| Civer, Charles William | Palmer, Leslie H. |
| Coburn, Tom | Powell, Martha Ann |
| Covington, Jimmie A. | Powell, Marvin Adell, Jr. |
| Crumpton, Clara Mae Humphreys | Prince, Martha Jane Alexander |
| DeSpain, Hugh Edward | Rauchle, Bobby C. |
| Dix, Beverly L. | Ray, Jimmie Ann |
| Dodd, Robert Erroll | Riddick, Max Forest |
| Doyle, Ella A. | Ritter, Robert R. |
| *Dudley, Sandra Grace | Roberts, Donald Edward |
| Dulaney, Betty Jo | Roberts, Joanna Dare |
| Eddins, Donna Elizabeth | *Roof, Martha Jan |
| Ensley, Helen O. | Shapple, William V., Jr. |
| Erwin, Sara Ann | Siniard, Lois Arnold |
| Ferrell, Susie Elizabeth | *Smith, Yvonne T. |
| *Fortune, Herman T. | *Stephens, Rosemary C. |
| Franklin, Ann Gibson | Tansley, James Nicholas |
| Franklin, Sherman M. | Tatom, Wilmah Adeline Scott |
| *Frizzell, Beverly K. | Thornton, Mary Jo |
| Giem, Yvonne Louise | Warrington, Sarah J. |
| *Haire, Rex Patrick | Weaver, Thomas Todd, Jr. |
| Hays, Carole Anne | Whitaker, Marilyn R. |
| Hodges, William David | Young, Nancy C. |
| *Howland, Katherine R. | |

* All grades A

DEAN'S LIST

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SPRING SEMESTER, 1961

Atkins, John Paul	Key, Vera Camille
Banister, Kathleen M.	Koch, Susan Louise
Banks, William Morris, Jr.	*Landis, Carl David
Baskin, Reed Carl	Lawrence, Marilyn Jean
*Boatman, Norma Faye	Lawrimore, Rebecca A.
Bradley, Jimmie H.	Logan, Jack
*Bricks, Bernard Gerrard	*Loskove, Morris David
Browder, George Clark	Marcus, Marshall H., Jr.
Brown, Patricia Gail	*McCarroll, William R.
*Bruce, Barbara Ann	McMahon, Richard Warren
Burnett, Nancy G. C.	Miller, Eva May
Bussel, Alan	*Musick, Evelyn Louise
Cabler, Cherry Joyce	Norton, Wayne A.
*Caldwell, Carol Ann	O'Neil, Jane Frances
Campbell, Marilyn R.	Peeler, Mary Alice
Cannon, Joyce Ethel	Powell, Martha Ann
Castleberry, Garland Paul	Ray, Jimmie Ann
Covington, Jimmie A.	Rea, Barbara Corinee
Crockett, John Edwin	Ritter, Janet S. Doyle
Dehn, Richard Edward	Roof, Marta Jan
Drake, Lenora Alice Williams	Ross, L. Diane
Dudley, Sandra Grace	*Rye, Robert Ray
Evers, Jimmie William	Schroer, Franklin Donald
Ferguson, Shirley Ann	Scruggs, Leslie Scales
*Fortune, Herman Terry	*Shappley, William Vance, Jr.
Franklin, Sherman Morgan	Smith, Yvonne T.
Garner, Robert Harlan	Smythe, Robert V.
Gibson, Carol Jeanne	Spalding, Ruth Emerson
Giem, Yvonne Louise	Stephens, Rosemary C.
Goad, Kathryn Roberts	Stockdale, El Ray
Grilli, Gail Patricia	Tatom, Wilmah A. Scott
Hauswald, Eva Maria	Townsend, Mary Ella
Hedley, Martha Kay	Whitehead, Bobby Sue
Highsmith, Schelley	Williams, Mahala H.
Howland, Katherine Rose	Williams, Sandra Diane
Jordan, Barbara Sue	Willis, Franklin Virgil
Kaiser, Julia Avice	Woodall, Ronald Lee
Keathley, Sandra Ann	

* All grades A

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Memphis 11, Tenn.